

**SITE 1**  
**SOIL VAPOR INVESTIGATION**

**NWIRP BETHPAGE**  
Bethpage, New York



**Naval Facilities Engineering Command  
Mid-Atlantic**

**Contract No. N62472-03-D-0057  
Contract Task Order 002**

APRIL 2008

**SITE 1  
SOIL VAPOR INVESTIGATION**

**NAVAL FACILITIES ENGINEERING COMMAND  
MID-ATLANTIC**

**COMPREHENSIVE LONG-TERM  
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT**

**Submitted to:  
Naval Facilities Engineering Command  
Mid-Atlantic  
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**Contract No. N62472-03-D-0057  
Contract Task Order 002**

**April 2008**

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## ACRONYMS

1, 1, 1-TCA	1, 1, 1-trichloroethene
1, 1-DCA	1, 1-dichloroethane
1, 1-DCE	1, 1-dichloroethene
AS/SVE	air sparging/soil vapor extraction
bgs	below ground surface
CLEAN	Comprehensive Long-Term Environmental Action Navy
COC	chain of custody
CTO	contract task order
DPT	direct-push technology
ELAP	Environmental Laboratory Approval Program
MTBE	methyl tert butyl ether
NWIRP	Naval Weapons Industrial Reserve Plant
NYSDOH	New York State Department of Health
PCE	tetrachloroethene
RBC	Risk Based Concentration
SVPM	Soil Vapor Pressure Monitor
TCE	trichloroethene
VOC	volatile organic compound
USEPA	United States Environmental Protection Agency
µg/m <sup>3</sup>	micrograms per cubic meter of air



## **1.0 INTRODUCTION**

This Data Report has been prepared for the Navy under Contract Task Order (CTO) 002 by the Naval Facilities Engineering Command Mid-Atlantic under the Comprehensive Long-Term Environmental Action Navy (CLEAN) contract number N62472-03-D-0057. This Data Report presents soil vapor investigation activities that took place from January 21, to January 30, 2008 at the Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage, Long Island, New York (Figures 1 and 2). The monitoring activities were conducted in accordance with the Tetra Tech letter work plan (TtNUS, 2007) and New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH, 2006).

Site 1 was identified as having been impacted by historic releases of chlorinated solvents and was remediated via an air sparging/soil vapor extraction (AS/SVE) system between 1998 and 2001. Remedial goals were based on protection of groundwater and minimization of solvent emissions during a planned subsequent soil removal action. Remediation goals did not consider possible soil vapor migration to an adjacent residential neighborhood. Natural attenuation of solvents continues. Site photos are presented in Appendix A.

Soils in general at Site 1 consist mainly of unconsolidated sediments that overlie crystalline bedrock. The unconsolidated sediments consist of four distinct geologic units that in descending order are the Upper Glacial Formation, the Magothy Formation, the Raritan Clay, and the Lloyd Formation.

The Upper Glacial Formation, which is about 30 to 45 feet thick, consists chiefly of coarse sands and gravels. The upper Magothy Formation consists chiefly of coarse sands to a depth of about 100 feet, below which finer sands, silts, and clay predominate. The clay is fairly common but laterally discontinuous; no individual clay horizon of regional extent underlies the NWIRP.

The Raritan Clay underlies the Magothy Formation at a depth of about 700 feet beneath the NWIRP and is reportedly 100 to 150 feet thick. The underlying Lloyd Sand Formation is reportedly about 300 feet thick.



## **2.0 FIELD AND SAMPLING ACTIVITIES**

From January 21 to January 30, 2008, 6 soil borings and 18 temporary soil gas points were installed, 4 existing soil vapor pressure monitors were converted to soil gas sampling wells, and 22 soil gas samples were collected, (Figure 3). Soil borings and soil gas points were installed using direct push technology (DPT).

Four temporary soil gas borings were installed along the fence running from the southeast corner to the northeast corner of Site 1. This fence line separates the Navy property from a residential neighborhood (BPS1-SB1001 to BP-SB1004) to the east. Site 1 is a known area with historical solvent contamination. In addition, two soil gas borings were installed northeast of Site 1, also along the edge of the Navy property and the residential neighborhood (BPS1-SG1005 and BPS1-SG1006). These borings were installed to continue the line of investigation to the eastern edge of Navy property.

For each location, continuous soil macro core samples were first collected to depths of 40 to 49 feet bgs and the lithology was characterized in the field. The Work Plan identified a boring depth of 50 feet, but refusal was encountered before this depth for each boring. Based on groundwater monitoring wells located at the site, groundwater is approximately 51 feet below ground surface. Groundwater was not encountered in any of the borings.

Soil boring log sheets are presented in Appendix B. Soils from the surface to the bottom of the borings were generally characterized as fine to coarse sands and gravels, with some silt. Thin lenses of sandy silt or clayey silt were encountered during the borings. These lenses were generally 2 to 4 feet thick. One lens was encountered a depth of approximately 10 feet in all of the borings. A sandy silt unit was also observed near the bottom of one boring (BPS1-SB1004). Soil gas points were installed at depths to avoid these lenses.

Soil gas points were installed in a separate borings, approximately 2 to 3 feet away from the soil boring and other soil gas points. The soil gas points were installed using DPT to depths of 5.5 to 8 ft, 20 to 22 ft and 40 to 46 feet. Individual samples and depths are presented in Table 1.

During sampling, several steps were taken to ensure the representativeness of the soil gas sample. For each soil gas point, the sampling point was pushed to the target sample depth and the sample screen below the rods was exposed. A tube with a threaded and o-ring seal connection was lowered from the surface and screwed into a paired sample screen port. The ground surface was covered with plastic and a 5-gallon container was placed over the down-hole

equipment. Penetrations through the bucket (rods and tubing) were sealed with bentonite and the container was filled with helium.

Sample collection consisted of first purging the well screen and sample tubing with a positive displacement pump. Purge and sample rates varied from 0.12 to 0.25 liters per minute. During purging, helium and photo ionization detector (PID) readings of the off gas were obtained and recorded. The helium readings were used to determine potential leakage of air from the surface to the sample point. PID readings were collected to support data evaluation. During the purge process, helium readings in excess of criteria were not observed (Appendix C). PID readings ranged from 0 to 9 parts per million. The cold weather affected the battery on the PID meter, and PID readings were not obtained on all samples.

Following purging, soil gas samples for laboratory testing were collected using a summa canister. Sample collection times ranged from approximately 40 to 60 minutes. After the soil gas samples were collected, each boring was backfilled with granular bentonite. The temporary wells were not surveyed; rather field measurements were taken to define the soil gas locations (Appendix C). Soil cuttings were containerized in 55 gallon drums for characterization and disposal.

Ambient air samples were collected simultaneously with each soil gas sample to evaluate potential chemicals in the ambient area. The Summa sample containers were positioned at a location approximately 30 to 50 feet upwind and at a height to 1 to 2 feet above grade. The ambient air sample was obtained over a four- to eight-hour period that corresponded to the soil vapor collection activities. The canister was moved during sampling activities to remain upwind of the sampled boring (Appendix C).

The soil gas samples were analyzed according to United States Environmental Protection Agency (USEPA) Method TO-15 volatile organic compounds (VOCs) by Air Toxics Ltd. Folsom, California, an Environmental Laboratory Approval Program (ELAP) certified laboratory (USEPA, 1999).

### **3.0 SOIL GAS ANALYTICAL RESULTS**

From January 21 to January 30, 2008, 18 temporary soil gas samples and 4 converted soil vapor pressure monitoring points were sampled via Summa canisters and analyzed for TO-15 VOCs. Chain of custody sheets and the data analytical reports can be found in Appendices D and E, respectively.

Analytical results are presented in Table 2 and Figure 4. For comparison, EPA Region 3 Risk-Based Concentration (RBC) criteria are presented. These criteria are not applicable to soil gas, but present baseline concentrations at which risk to human health may result under long term exposure. Detections less than these concentrations would not be expected to present any risk to human health.

NYSDOH uses indoor air values of 5 micrograms per cubic meter of air ( $\mu\text{g}/\text{m}^3$ ) and 100  $\mu\text{g}/\text{m}^3$  for trichloroethene (TCE) and tetrachloroethene (PCE), respectively. NYSDOH has not published similar values for other constituents. As a result, the primary focus of this evaluation will be for TCE and PCE.

For the temporary soil gas samples, the highest TCE and PCE concentrations were detected in the shallow (7 to 8 feet) and intermediate-depth (20 feet) soil gas samples at locations BPS1-SG1001 and BPS1-SG1002. These points are in the south portion of the site. Maximum TCE and PCE concentrations were 180,000 and 1,700  $\mu\text{g}/\text{m}^3$ , respectively. The highest 1,1,1-trichloroethane concentration (90,000  $\mu\text{g}/\text{m}^3$ ) was also detected in this area. Soil gas samples collected near the water table at these soil gas points were a factor of approximately 10 to 100 times lower than observed in the shallow and intermediate depth samples, suggesting that the residual soil gas contamination may be associated with the silt unit observed at approximately 10 feet below ground surface.

Two of the four converted soil vapor pressure monitors (SVPM11S-24 and SVPM11-49) are co-located with temporary soil gas points (BPS1-SG1001) and the soil gas results are similar. The other two converted soil vapor pressure monitors (SVPM12S-25 and SVPM12-50) are located further south at Site 1 and do not have associated soil gas points. Soil gas results from these southern converted soil vapor pressure monitors indicated a trend of higher soil gas concentrations at the water table than at the intermediate depth, which is reverse of what was observed elsewhere at the site.

In the central and northern portion of Site 1, (BPS1-SG1003 and BPS1-SG1004), TCE and PCE were detected at maximum concentrations of 750 and 1,300 ug/m<sup>3</sup>. While these concentrations are lower than detected in the southern sample points, these concentrations are significant when compared to NYSDOH criteria. In this area, the higher TCE concentrations are in the deepest samples, whereas the higher PCE concentrations were more evenly distributed over depth.

Northeast of Site 1 (BPS1-SG1005 and BPS1-SG1006), TCE and PCE were detected at maximum concentrations of 71 and 60 ug/m<sup>3</sup>. The higher concentrations were detected near the water table.

In addition to TCE and PCE, 1,1-dichloroethene (1,1-DCE) (4,700 µg/m<sup>3</sup>) and 1,1-dichloroethane (1,1-DCA) (1,700 µg/m<sup>3</sup>) were detected in the borings in the southern portion of the site. The detection of these compounds corresponded to the higher TCE and PCE detections.

Freons, chloromethane, acetone, 2-butanone, benzene, and toluene were detected in all or most of the field blanks. Concentrations were generally less than EPA Region 3 RBCs. Benzene, toluene, ethyl benzene, xylenes, freon, and methyl tert-butyl ether were also detected in most of the soil gas samples at concentrations similar to or less than EPA Region 3 RBCs. Trans 1,2-dichloroethene was detected slightly above or comparable to the EPA Region 3 RBC criteria of 62 µg/m<sup>3</sup> from the soil borings located in the northern area.

EPA Region 3 RBC exceedances for cis-1,2-dichloroethene ranged from 79 µg/m<sup>3</sup> in BPS1-SG1004-46 to 860 µg/m<sup>3</sup> in SVPM11S-24. The highest exceedances of chloroform (53 µg/m<sup>3</sup>) and carbon tetrachloride (130 µg/m<sup>3</sup>) were located northeast of Site 1 in BPS1-SG1006-20 (Figure 4).

#### **4.0 CONCLUSIONS**

1. Soil gas samples collected along the eastern border of the site exceeded NYSDOH for indoor air criteria for TCE and PCE of 5  $\mu\text{g}/\text{m}^3$  and 100  $\mu\text{g}/\text{m}^3$ , respectively. Maximum TCE and PCE concentrations were 180,000  $\mu\text{g}/\text{m}^3$  and 5,300  $\mu\text{g}/\text{m}^3$ , respectively.
2. Chemical concentrations in soil gas samples collected along the southern edge of Site 2 and the northeast corner of Site 1 (BPS1-1004, BPS1-1005, and BPS1-1006) were much lower than concentrations detected along the central and southeast corner of Site 1. Maximum TCE and PCE concentration were 820  $\mu\text{g}/\text{m}^3$  and 78  $\mu\text{g}/\text{m}^3$ , respectively. These concentrations were detected at a depth of 46 feet below ground surface. Shallower samples contained lower concentrations of these chemicals.
3. The highest concentrations of TCE and PCE were generally detected at depths of 20 and 50 feet. However, shallow samples BPS1-SG1001-07 (7 feet bgs) and BPS1-SG1002-08 (8 feet) contained TCE (19,000  $\mu\text{g}/\text{m}^3$  and 3,300  $\mu\text{g}/\text{m}^3$ ) and PCE (170  $\mu\text{g}/\text{m}^3$  and 1,700  $\mu\text{g}/\text{m}^3$ ) at concentrations greater than NYSDOH criteria of 5  $\mu\text{g}/\text{m}^3$  and 100  $\mu\text{g}/\text{m}^3$  for indoor air, respectively.
4. Based on this data, potential migration of contaminated soil vapor to adjacent residents may be possible.



## **REFERENCES**

New York State Department of Health (NYSDOH), 2006. Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October.

Tetra Tech NUS, Inc. (TtNUS), 2007. Letter Work Plan-Site 1-Soil Gas Investigation. Naval weapons Industrial reserve Plant, Bethapge, New York.

United States Environmental Protection Agency (USEPA), 1999. Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air Second Edition Compendium Method TO-15 Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/ Mass Spectrometry (GC/MS). January.

United States Environmental Protection Agency (USEPA), 2007. Mid-Atlantic Risk Assessment Human Health Risk Assessment Risk-Based Concentration Table, updated October 2007, retrieved from the EPA website, <http://www.epa.gov/reg3hwmd/risk/human/index.htm>



**TABLE 1**  
**SOIL GAS INVESTIGATION**  
**FIELD ACTIVITIES**  
**NWIRP BETHPAGE, NEW YORK**

Boring Number	Drilling Method	Total Depth (feet) <sup>1</sup>	Depth (feet)	Soil Sample	Air Sample <sup>2</sup>
BPS1-SG1001	DPT	40	7	no	YES
			20	no	
			40	no	
			40 DPT	continuous	
BPS1-SG1002	DPT	45	8	no	YES
			20	no	
			45	no	
			45 DPT	continuous	
BPS1-SG1003	DPT	45	5.5	no	YES
			20	no	
			45	no	
			45 DPT	continuous	
BPS1-SG1004	DPT	46	5.5	no	YES
			22	no	
			46	no	
			46 DPT	continuous	
BPS1-SG1005	DPT	45	8	no	YES
			20	no	
			45	no	
			45 DPT	continuous	
BPS1-SG1006	DPT	45	7	no	YES
			20	no	
			45	no	
			45 DPT	continuous	
SVPM11S-24	existing	25	24	no	YES
SVPM11-49	existing	50	49	no	YES
SVPM12S-25	existing	27.1	25	no	YES
SVPM12-50	existing	52.1	50	no	YES

1. Depth below ground surface

2. Work area summa canister (4 to 8 hours).

DPT = Direct push technology



**TABLE 2**  
**SOIL GAS SAMPLING ANALYTICAL RESULTS**  
**NWIRP BETHPAGE, NEW YORK**  
**PAGE 1 OF 1**

	Ambient air <sup>(1)</sup>		BPS1-SG1001-07	BPS1-SG1001-20	BPS1-SG1001-40	BPS1-SG1002-08	BPS1-SG1002-08 DUP	BPS1-SG1002-20	BPS1-SG1002-45	BPS1-SG1003-05.5	BPS1-SG1003-20	BPS1-SG1003-45	BPS1-SG1004-05.5	BPS1-SG1004-22	BPS1-SG1004-46	BPS1-SG1005-08	BPS1-SG1005-20	BPS1-SG1005-45	BPS1-SG1006-07	BPS1-SG1006-20	BPS1-SG1006-45	SVPM11S-24	SVPM11-49	SVPM12S-25	SVPM12-50	
Compound	µg/m³		µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
Freon 12	182.50	N			4.1					0.86			1.6	1.9		1.8	1.6	1.4	1.6	1.4	1.2		1.8			
Chloromethane	94.90	N											0.83	1.1		0.79	0.34				0.5		1.1			
Freon 11	730.00	N								1.8			1.3	1.5		1.3	1.6	2.3	1.1	1.7	1.4		1.2			
Freon 113	31,390.00	N				2,200	2,900	<b>5,100</b>	2,400	790E	1,400	2,200	4		600	2.4	3	15				4,900				
1,1-Dichloroethene	219.00	C	<b>490</b>	<b>2,400</b>	15			20		0.94	5.8	8.8			4.1									<b>1,700</b>	<b>4,700</b>	
Acetone	3,285.00	N	370		14	64	72	1500	2000	95	120	340	330E	230E	470	230E	490 E	740E	110	160E	570E		9.3			
Carbon Disulfide	730.00	N											3.6				2.5	4.6	2.3	3.2	4.7	2.4				
Methylene Chloride	3.79	C			<b>150</b>																					
Methyl tert-butyl ether	1.57	C											<b>8.2</b>													
trans-1,2-Dichloroethene	62.05	N				22	25	58					5.6			22							<b>64</b>			
1,1-Dichloroethane	511.00	C	130	<b>1,700</b>	14	15		62	16	1.2	19	95			460							63		<b>710</b>	<b>1,400</b>	
2-Butanone	5,110.00	N	35					50	230	10	12	22	16	0.87	15	11	53	37	26	21	50		0.75			
cis-1,2-Dichloroethene	36.50	N		<b>560</b>	4.4	<b>160</b>	<b>200</b>	<b>800</b>	92		3.7	8.1		<b>79</b>								<b>860</b>		<b>780</b>		
Chloroform	0.08	C								<b>1.2</b>	<b>4.9</b>	<b>5.7</b>						<b>1.7</b>	<b>1.2</b>	<b>2.4</b>	<b>53</b>	<b>28</b>				
1,1,1-Trichloroethane	5,219.50	N	<b>16,000</b>	<b>90,000</b>	890	740	970	1,900	550	440E	790	780	3.9		430	3.4	11	27				0.95	2,400		<b>36,000</b>	<b>75,000</b>
Carbon Tetrachloride	0.12	C																				<b>41</b>	<b>130</b>	<b>99</b>		
Benzene	0.23	C							<b>33</b>	<b>56</b>	<b>3.3</b>	<b>6.2</b>	<b>9.4</b>	<b>7.6</b>	<b>1.4</b>	<b>5.2</b>	<b>7.1</b>	<b>22</b>	<b>8.4</b>	<b>5.1</b>	<b>7.2</b>	<b>23</b>		<b>1</b>		
4-Methyl-2-pentanone	3,139.00	N												2.1								0.66				
Toluene	5,110.00	N							31	66	25	41	24	32	3.6	15	10	37	30	8.8	18	<b>40</b>	23	2.2		
Tetrachloroethene	0.31	C	<b>170</b>	<b>1,200</b>	<b>5.9</b>	<b>1,700</b>	<b>2,100</b>	<b>960</b>	20	<b>540E</b>	<b>1,300</b>	<b>250</b>	<b>22</b>		<b>78</b>	<b>15</b>	<b>59</b>	<b>60</b>	<b>19</b>	<b>28</b>	<b>44</b>	<b>5,300</b>				
Chlorobenzene	51.10	N																								
Ethyl Benzene	1,058.50	C									7.8	12	4.4	9.1			1.8	6.4	4.7	1.8	3.2	5.2				
m,p-Xylene	109.50	N								20	27	34	14	32	1.9	7.4	5.1	12	13	5	8.4	14	26	1.2		
o-Xylene											8.3	11		11	0.63		1.2	3.2	2.6	1.6	2.2	2.7				
Styrene	1,043.90	C									0.92			0.76				0.89				0.74				
1,4-Dichlorobenzene	0.16	N									1.5				<b>0.84</b>											
Trichloroethene	0.02	C	<b>19,000</b>	<b>180,000</b>	1,400	3,300	4,600	4,400	320	110	590	750	5.2		820	1.5	16	71	1.2	2	2.1	<b>7,200</b>	<b>0.29</b>	<b>73,000</b>	<b>150,000</b>	

1 - Ambient air criteria from EPA Region 3 RBC tables, <http://www.epa.gov/reg3hwmd/risk/human/index.htm>

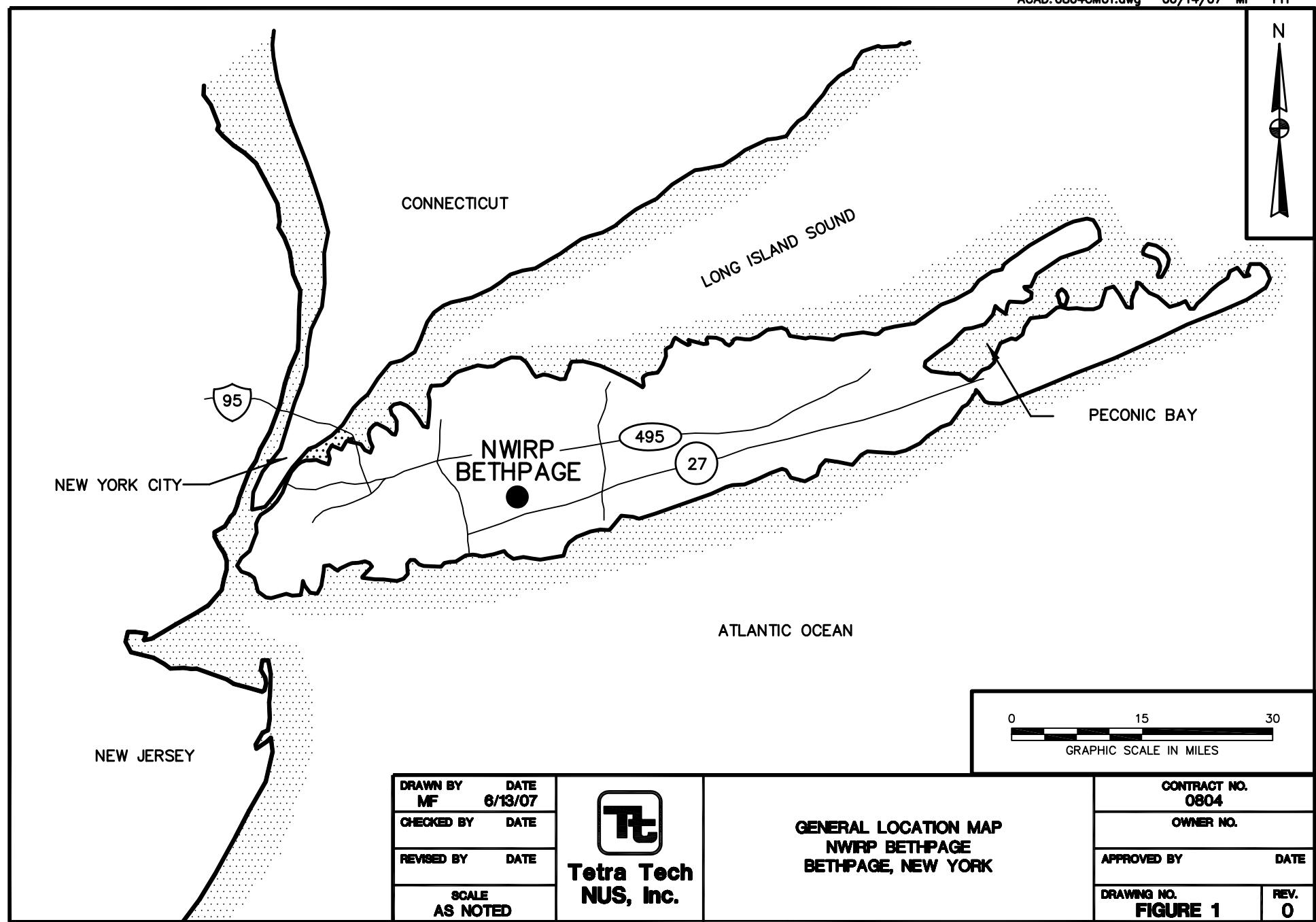
µg/m³ = micrograms per cubic meter of air

C = Carcinogenic effects N = Noncarcinogenic effects

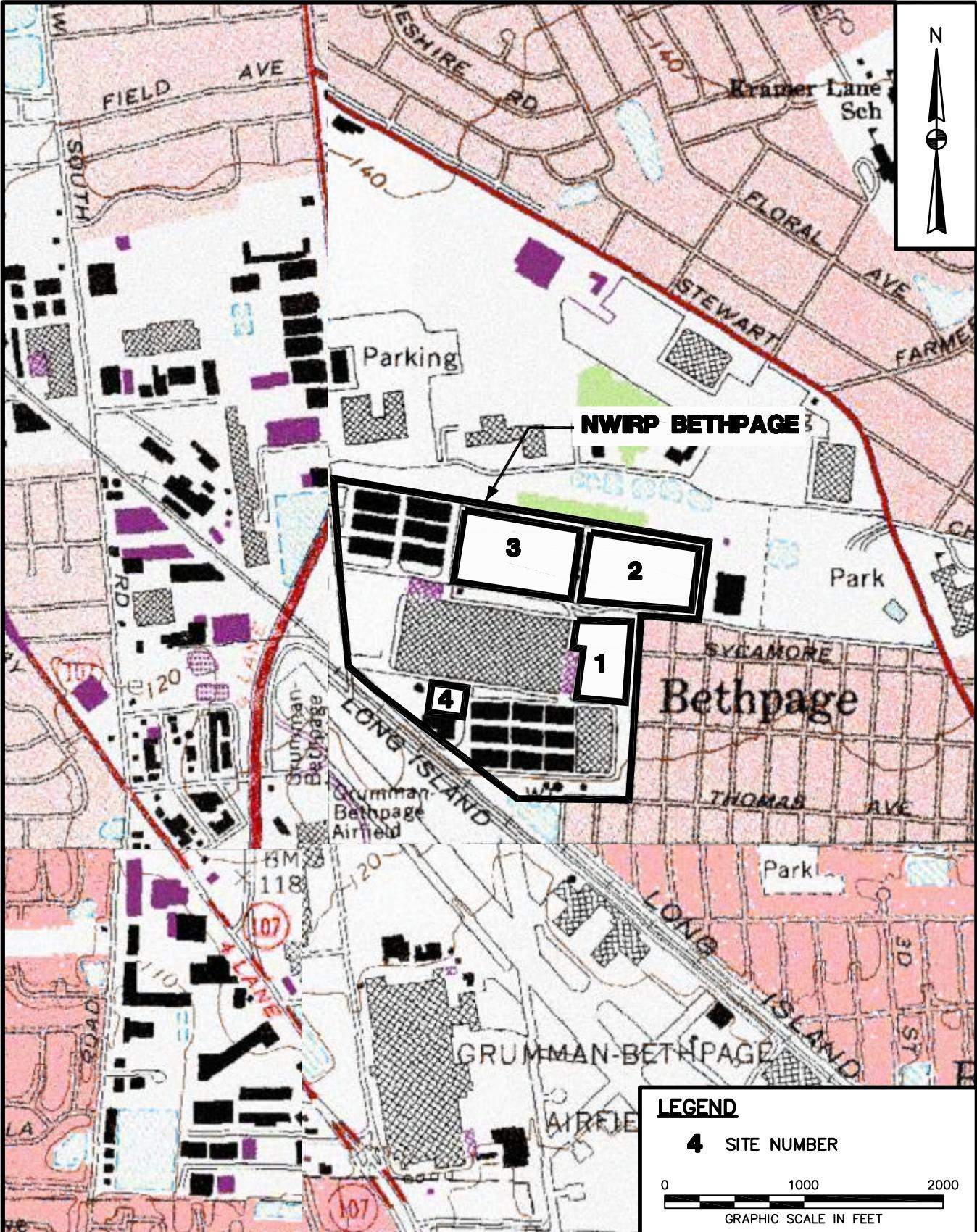
**Bolded values are exceedances of EPA Region 3 RBCs.**

E = exceeds instrument calibration range, reported results likely exceed plus/minus 25 %.

Blank cells indicate a non-detect value.







DRAWN BY DATE  
MF 6/13/07

CHECKED BY DATE

REVISED BY DATE

SCALE  
AS NOTED



**Tetra Tech  
NUS, Inc.**

SITE LOCATION MAP  
SITE 1  
NWIRP BETHPAGE  
BETHPAGE, NEW YORK

CONTRACT NO.  
0804

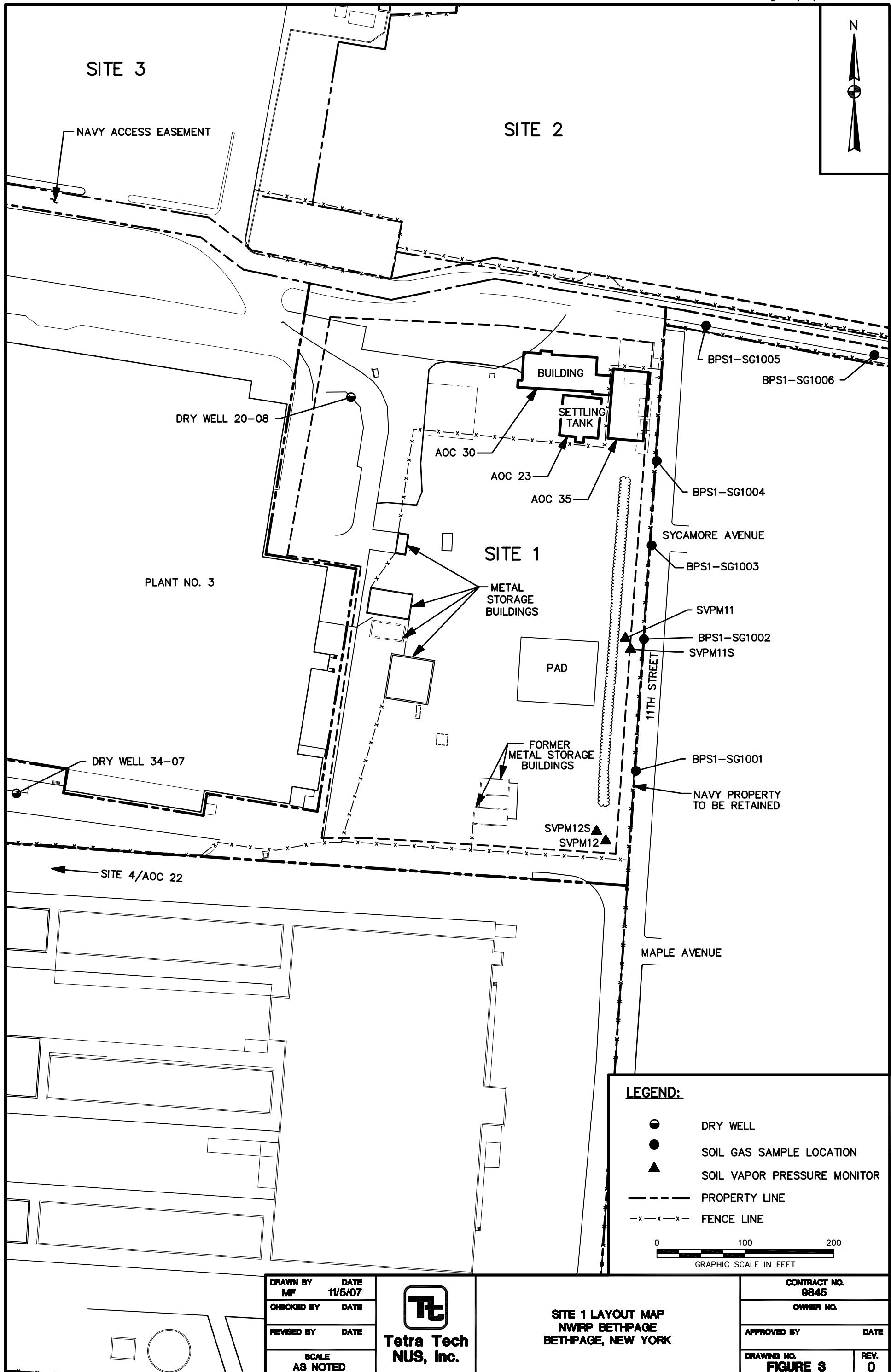
OWNER NO.

APPROVED BY DATE

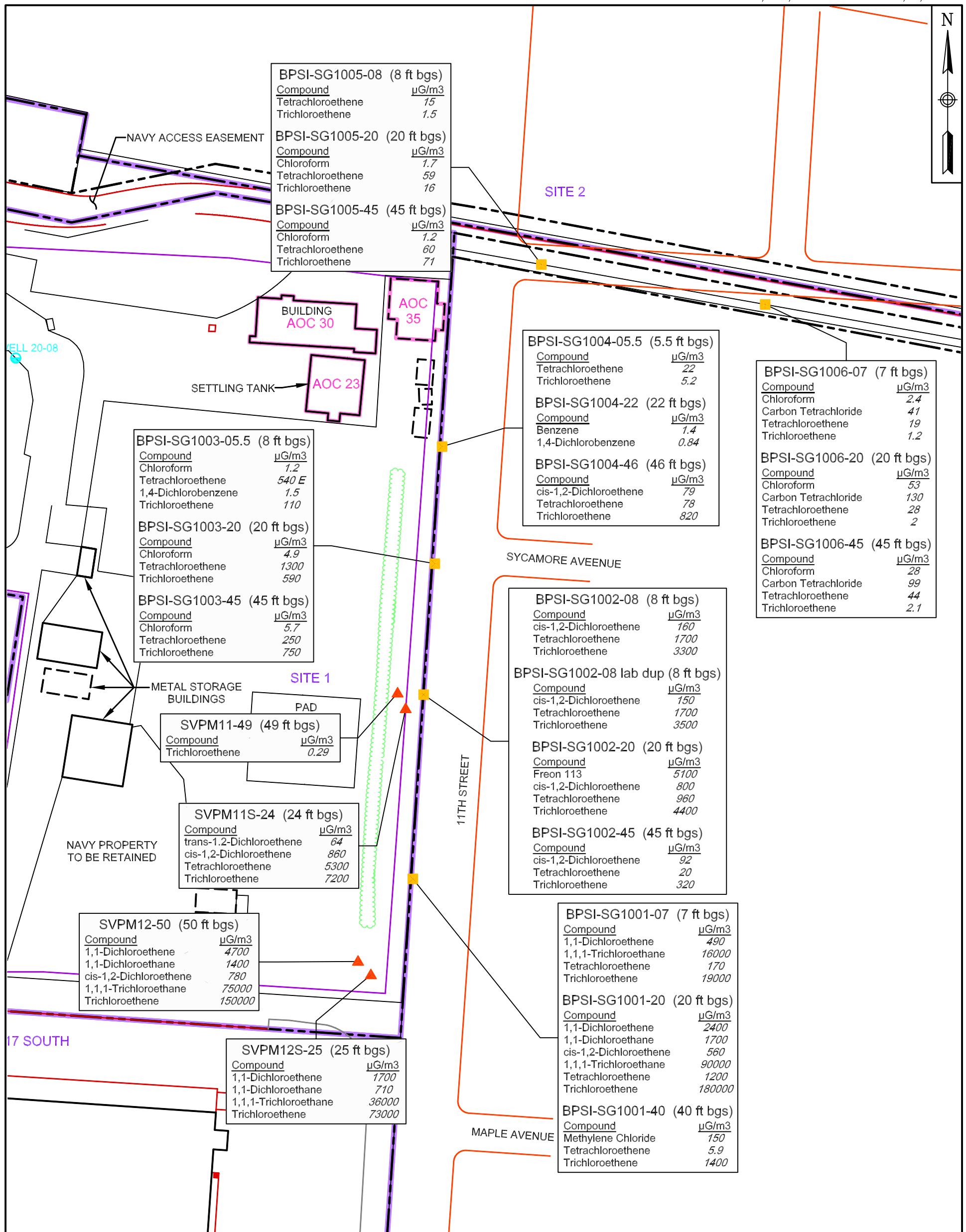
DRAWING NO.  
**FIGURE 2**

REV.  
0









## LEGEND

- DRY WELL
- SOIL GAS SAMPLE LOCATION
- SOIL VAPR PRESSURE MONITOR
- PROPERTY LINE
- FENCE LINE
- SITE BOUNDARY
- AOC BOUNDARY

NOTE:  
FIGURE PRESENTS VOLATILE ORGANIC COMPOUNDS THAT EXCEED EPA REGION 3 RBCs FOR  
INDOOR AIR. FOR COMPARISON, NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR  
CRITERIA FOR TCE AND PCE ARE 5  $\mu\text{g}/\text{m}^3$  AND 100  $\mu\text{g}/\text{m}^3$  RESPECTIVELY.

0 80 160  
SCALE IN FEET



SOIL GAS RESULTS  
SITE 1  
NWIRP BETHPAGE  
BETHPAGE, NEW YORK

FILE  
112GN9845GM01

SCALE  
AS NOTED

FIGURE NUMBER  
FIGURE 4

REV  
0 DATE  
02/27/08



**APPENDIX A**

**SITE PHOTOS**



**Bethpage Site 1  
Soil Gas Photos  
January 2008**



Photo 1: DPT rig, East of Site 1



Photo 2: DPT rig, East of Site 1



**Bethpage Site 1  
Soil Gas Photos  
January 2008**



Photo 3: DPT rig, East of Site 1



Photo 4: DPT rig, East of Site 1



**Bethpage Site 1  
Soil Gas Photos  
January 2008**



Photo 5: DPT rig, East of Site 1



Photo 6: DPT rig, East of Site 1



**Bethpage Site 1  
Soil Gas Photos  
January 2008**



Photo 7: Probe tubing, helium tank over sample point.



Photo 8: Probe and tubing over two sample points.



**Bethpage Site 1  
Soil Gas Photos  
January 2008**



Photo 9: Summa canister and purge pump.



Photo 10: Purge pump and helium detector.



**Bethpage Site 1  
Soil Gas Photos  
January 2008**



Photo 11: Field blank and Summa canister.



Photo 12: DPT rig and sample points, East of Site 1.



**Bethpage Site 1  
Soil Gas Photos  
January 2008**



Photo 13: Sample points, East of Site 1



Photo 14: Sample points, East of Site 1



**APPENDIX B**

**SOIL BORING LOGS and MONITORING WELL CONSTRUCTION SHEETS**



Tetra Tech NUS, Inc.

**BORING LOG**Page 1 of 2

PROJECT NAME: NWIRP Bethpage  
 PROJECT NUMBER: CTD-121  
 DRILLING COMPANY: Zebra  
 DRILLING RIG: Geoprobe

BORING No.: BPS1 - SG1001  
 DATE: 1-24-08  
 GEOLOGIST: Vince Shickora  
 DRILLER: Luke Reiss

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Solid Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole **	Driller BZ**
T1020	0920	S-1	1		DK Brn	Sandy Silt with Trace fine gravel (Fill)			moist	0 0 0 0			
			3										
0925			5	48" / 60"	Brn	FGR to CGR Sand and fine to coarse gravel			moist	0 0 0 0			
		S-2				Trace silt							
			7										
0932			9	57" / 60"	Brn GRY	Sandy Silt - Trace fine gravel and clay			moist	0 0 0 0			
		S-3	11		ORG Brn	FGR to CGR Sand and fine to coarse gravel			moist	0 0 0 0			
						Trace silt							
0938			13		ORG Brn	Same as above			moist	0 0 0 0			
			15	45" / 60"									
		S-4			ORG Brn	Same as above			moist	0 0 0 0			
			17										
0944			19										
			21	46" / 60"	ORG Brn	Same as above			moist	0 0 0 0			
		S-5											
			23										
1005			25	44" / 60"	ORG Brn	Same as above			moist	0 0 0 0			

\* When rock coring, enter rock brokeness.

\*\* Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: Geoprobe DPT - 2" x 5' macro-core discrete Interval  
Sampler with Acetate SleevesDrilling Area  
Background (ppm): 

Converted to Well: Yes \_\_\_\_\_ No \_\_\_\_\_ Well I.D. #: \_\_\_\_\_



Tetra Tech NUS, Inc.

## BORING LOG

Page 2 of 2

PROJECT NAME: NWIRP Bethpage  
 PROJECT NUMBER: CTD-121  
 DRILLING COMPANY: Zebra  
 DRILLING RIG: Geoprobe

BORING No.: BPS 1 - SG1001  
 DATE: 1-24-08  
 GEOLOGIST: Vince Shickora  
 DRILLER: Luke Reiss

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole*	Driller BZ*
5-6					ORG Brn		PGR to GCR Sand and fine to coarse gravel		moist	0 0 0 0			
	27						Trace silt						
	29				ORG Brn		Same as above		moist	0 0 0 0			
1020		45"	160"										
	5-7 31			- - -	ORG Brn		PGR to MGR Sand with Trace GCR sand - Gravel -		moist	0 0 0 0			
	33			- - -			SILT						
1859	35	52"	160"	- - -	ORG Brn	Tan	PGR to MGR Sand - Trace GCR sand - Silt		moist	0 0 0 0			
	5-8												
	57				ORG Brn		PGR to GCR Sand and fine to coarse gravel		moist	0 0 0 0			
	39						Trace Silt.						
1418	41			EoB									
	43												
	45												
	47												
	49												

\* When rock coring, enter rock brokeness.

\*\* Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: (see page 1) Hit refusal at ~ 37' feet after collecting 35' to 40' sample and attempting to collect 40' to 45' sample

Drilling Area

Background (ppm): 

Converted to Well: Yes \_\_\_\_\_ No \_\_\_\_\_ Well I.D. #: \_\_\_\_\_



Tetra Tech NUS, Inc.

**BORING LOG**Page 1 of 2

PROJECT NAME: NWIRP Bethpage  
 PROJECT NUMBER: CTO-121  
 DRILLING COMPANY: Zebra  
 DRILLING RIG: Geoprobe

BORING No.: BPS 1 - SG 1002  
 DATE: 1-23-08  
 GEOLOGIST: Vince Shickora  
 DRILLER: Luke Reiss

Time  
0837

0839

0843

0847

0948

1010

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-1	1				DK Brn	Sandy silt with some fine gravel (grass + roots)			moist	00000			
	3			- - -	ORG Brn	FGR to CGR sand and fine to coarse gravel			moist	00000			
	5	42" / 60"				Trace silt							
S-2	7				Brn	Same as above			moist	00000			
	9												
	11	58" / 60"			Brn	Same as above			moist	00000			
	13				Gry Brn	Same as above (more silt)			moist	00000			
	15	51" / 60"			ORG Brn	Same as above			moist	00000			
S-4	17												
	19			- - -	Gry Brn	Same as above			moist	00000			
	21	41" / 60"			ORG Brn	Same as above			moist	00000			
	23												
	25	47" / 60"			ORG Brn	Same as above			moist	00000			

\* When rock coring, enter rock brokeness.

\*\* Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: Geoprobe DPT - 2" x 5' macro-core discrete Interval sampler with Acetate sleevesDrilling Area  
Background (ppm):  D

Converted to Well: Yes \_\_\_\_\_ No \_\_\_\_\_ Well I.D. #: \_\_\_\_\_



Tetra Tech NUS, Inc.

**BORING LOG**Page 2 of 2

PROJECT NAME: New IRP Bethpage  
 PROJECT NUMBER: CTD-121  
 DRILLING COMPANY: Zebra  
 DRILLING RIG: Geoprobe

BORING No.: BPS.1 - SG 1002  
 DATE: 1-23-08  
 GEOLOGIST: Vince Shickora  
 DRILLER: Luke Reiss

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6' or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole BZ**	Driller BZ**
S-6					6' org	Brn	Same as above		moist	0 0 0 0			
	27												
	29				Brn	Tan	FGR to MGR Sand Trace CGR Sand-silt and gravel		moist	0 0 0 0			
1038	S-7	31			6'	tan	Same as above		moist	0 0 0 0			
		33											
		35			Brn	Tan	Same as above (more fine gravel)		moist	0 0 0 0			
	S-8	37			org Red		Silty CGR Sand & silt <del>Trace</del> gravel (Fine)			0 0 0 0			
		39			Brn		Trace FGR to MGR sand						
S-9	41				6'	Red	Same as above		moist	0 0 0 0			
	43				Tan	WT	FGR to MGR Sand Trace silt.		moist	0 0 0 0			
	45				WT		Same as above		moist	0 0 0 0			
	47			EOB									
	49												

\* When rock coring, enter rock brokeness.

\*\* Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1) Hit refusal at ~ 43' on way down to sample 45' to 50' intervalDrilling Area  
Background (ppm): 

Converted to Well: Yes \_\_\_\_\_ No \_\_\_\_\_ Well I.D. #: \_\_\_\_\_



Tetra Tech NUS, Inc.

## BORING LOG

Page 1 of 2

PROJECT NAME: NWIRP Both page  
 PROJECT NUMBER: CTO-121  
 DRILLING COMPANY: Zebra  
 DRILLING RIG: Geoprobe

BORING No.: BPS1-SG1003

DATE: 1-21-08

GEOLOGIST: Vince Shickora

DRILLER: Luke Reiss

Time

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6' or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole BZ**	Driller BZ**
1005	S-1	1		---	OK Brn	Sandy Silt with grass and roots			moist	0 0 0 0			
		3			Brn	Clayey Silt with some sand + fine gravel			moist	0 0 0 0			
1015	5		37" / 60"	---	Brn	Silty FGR to CGR Sand some fine gravel			moist	0 0 0 0			
	S-2				Brn	Clayey Silt			moist	0 0 0 0			
1020	7			---	Brn								
	9				Brn								
1025	S-3	11	44" / 60"	---	Brn	FGR to CGR Sand Trace Silt + fine gravel			moist	0 0 0 0			
		13			Brn	Same as above			moist	0 0 0 0			
1030	15		43" / 60"	---	Brn	MGR to CGR Sand Trace Silt + fine gravel			moist	0 0 0 0			
	S-4				Brn	FGR to CGR Sand with Fine to coarse gravel			moist	0 0 0 0			
1035	17			---	Tan	Trace Silt							
	19												
1040	S-5	21	48" / 60"	---	Brn	Same as above			moist	0 0 0 0			
		23			Brn								
1045	25		44" / 60"	---	Brn	Same as above			moist	0 0 0 0			

\* When rock coring, enter rock brokeness.

\*\* Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: Geoprobe DPT - 2" X 5' Macro-core discrete Interval  
Samples with Acetate sleeveDrilling Area  
Background (ppm): 0

Converted to Well: Yes \_\_\_\_\_ No \_\_\_\_\_ Well I.D. #: \_\_\_\_\_



Tetra Tech NUS, Inc.

## **BORING LOG**

Page 2 of 3

PROJECT NAME: NWIRP Bethpage  
PROJECT NUMBER: CTD - 121  
DRILLING COMPANY: Zehn  
DRILLING RIG: Geografe

BORING No.: BPS1-5G1003  
DATE: 1-21-08  
GEOLOGIST: V. Shickora  
DRILLER: L. Reiss

\* When rock coring, enter rock brokenness.

\*\* Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1)

Drilling Area  
Background (ppm):

Converted to Well: Yes No Well I.D. #:



Tetra Tech NUS, Inc.

## BORING LOG

Page 1 of 1

PROJECT NAME: NWIRP Benthpage  
PROJECT NUMBER: CTB-121  
DRILLING COMPANY: Zebra  
DRILLING RIG: Geoprobe

BORING No.: BPS1-SG1004  
DATE: 1-21-08  
GEOLOGIST: Vickie Shickora  
DRILLER: Luke Reiss

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample BZ	Sampler BZ	Borehole"	Driller BZ"
S-1	1			---	DK Brn	Sandy Silt with some gravel (fill)			moist	0	0	00	
	3				Brn	FGR to CGR Sand with some fine gravel and Trace Silt.			moist	0	0	00	
	5	39" / 60"											
S-2	7			---	Brn	Clayey Silt with dry Trace Sand/Fine gravel			very moist	0	0	00	
	9												
	11	51" / 60"			ORG Brn	FGR to CGR Sand and fine to coarse gravel Trace silt			moist	0	0	00	
S-4	13			---									
	15	39" / 60"			Brn TAN	Same as above			moist	0	0	00	
	17				Brn TAN	Same as above (more silt 16' to 18')			moist	0	0	00	
S-5	19			---									
	21	42" / 60"			Brn TAN	Same as above			moist	0	0	00	
	23				Brn	FGR to MGR Sand			moist	0	0	00	
	25	45" / 60"			TAN	Trace silt + fine gravel							

\* When rock coring, enter rock brokeness.

\*\* Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: Geoprobe IPT - 2" X 5' Macro-core discrete Interval Sampler with Acetate Sleeves

Drilling Area  
Background (ppm):

Converted to Well: Yes No Well I.D. #:



Tetra Tech NUS, Inc.

**BORING LOG**Page 2 of 2

PROJECT NAME: NWIRP Bethpage  
 PROJECT NUMBER: CTD-121  
 DRILLING COMPANY: Zebra  
 DRILLING RIG: Geoprobe

BORING No.: BPS1-SG1004  
 DATE: 1-21-08 / 1-22-08  
 GEOLOGIST: V. Shickora  
 DRILLER: L. Reiss

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Fl) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
5-6					Bm	FGR to CGR Sand and Fine to Coarse gravel			moist	0 0 0 0			
	27				Tan	Trace Silt.							
	29				Bm	FGR to MGR Sand Trace CGR Sand + Fine, gravel			moist	0 0 0 0			
		45" / 60"			Tan	Trace silt							
1441	5-7	31			Bm	Same as above			moist	0 0 0 0			
	33				Tan								
1509	35	42" / 60"			Bm	Same as above			moist	0 0 0 0			
	5-8				Tan								
	37				Bm	FGR to CGR Sand some fine gravel - Trace Silt			moist	0 0 0 0			
1540	39	46" / 60"			Tan								
	41				Bm	Same as above			moist	0 0 0 0			
	43				Tan								
1602	45	47" / 60"			Bm	FGR to MGR Sand Trace CGR sand + fine gravel			moist	0 0 0 0			
0737					Tan								
	47				Bm	Same as above			moist	0 0 0 0			
	49				Tan								
0748				EOB	Bm	Sandy Silt - Trace clay + fine gravel			moist	0 0 0 0			

\* When rock coring, enter rock brokeness.

\*\* Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1)

Drilling Area  
 Background (ppm):

Converted to Well: Yes \_\_\_\_\_ No \_\_\_\_\_ Well I.D. #: \_\_\_\_\_



Tetra Tech NUS, Inc.

## BORING LOG

Page 1 of 2

PROJECT NAME: NWIRP Bethpage  
 PROJECT NUMBER: CTD-121  
 DRILLING COMPANY: Zebra  
 DRILLING RIG: Geoprobe

BORING No.: BPS1-SG-1005  
 DATE: 1-23-08  
 GEOLOGIST: Vince Shickora  
 DRILLER: Luke Reiss

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole **	Driller BZ**
1350	S-1 1				DK Brn	Sandy Silt with some fine gravel			very moist	0 0 0 0			
	3				DK Brn	Same as above			very moist	0 0 0 0			
1355	5	49" / 60"											
	S-2				ORG Brn	FGR to CGR Sand and Fine to Medium gravel Trace silt			moist	0 0 0 0			
	7				ORG Brn	Same as above			moist	0 0 0 0			
1359	9	47" / 60"			ORG Brn	Sandy Silt with fine to medium gravel			moist	0 0 0 0			
	S-3 11				Brn	Trace clay							
	13												
1404	15	48" / 60"			ORG Brn	FGR to CGR sand and fine to coarse gravel Trace silt			moist	0 0 0 0			
	S-4												
	17				ORG Brn	Same as above			moist	0 0 0 0			
	19												
1411	21	50" / 60"			ORG Brn	Same as above			moist	0 0 0 0			
	23				ORG Brn	Same as above			moist	0 0 0 0			
1422	25	47" / 60"											

\* When rock coring, enter rock brokeness.

\*\* Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: Geoprobe DPT - 2" x 5' Macro-core discript  
Interval Sampler with Acetate sleevesDrilling Area  
Background (ppm): 

Converted to Well: Yes \_\_\_\_\_ No \_\_\_\_\_ Well I.D. #: \_\_\_\_\_



Tetra Tech NUS, Inc.

**BORING LOG**Page 2 of 2

PROJECT NAME: NWIRP Bethpage  
 PROJECT NUMBER: CTD-121  
 DRILLING COMPANY: Zebra  
 DRILLING RIG: Geoprobe

BORING No.: AP51-5G1005  
 DATE: 1-23-08  
 GEOLOGIST: V. Shickora  
 DRILLER: L. Reiss

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ*
					org Brn		Same as above		moist	0 0 0 0			
	5-6												
	27												
	29				org Brn		Same as above		moist	0 0 0 0			
1436		40" / 60"											
	5-7												
	31				org Brn		Same as above		moist	0 0 0 0			
	33												
1453		41" / 60"											
	5-8				org Brn		Same as above		moist	0 0 0 0			
	37				org Brn		FER to CGR Sand and Fine gravel - Trace silt and medium gravel		moist	0 0 0 0			
	39												
1504		44" / 60"											
	41				org Brn		Same as above		moist	0 0 0 0			
	43				org Brn		Same as above		moist	0 0 0 0			
1546		46" / 60"		EoB									
	45												
	47												
	49												

\* When rock coring, enter rock brokeness.

\*\* Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (See page 1) Refused at 41' BGS between 40' to 45' sample and attempting 45' to 50' sample

Drilling Area  
Background (ppm): 

Converted to Well: Yes \_\_\_\_\_ No \_\_\_\_\_ Well I.D. #: \_\_\_\_\_



Tetra Tech NUS, Inc.

**BORING LOG**Page 1 of 2

PROJECT NAME: NWIRP Bethpage  
 PROJECT NUMBER: CTD-121  
 DRILLING COMPANY: Zebco  
 DRILLING RIG: Geoprobe

BORING No.: BPS1-SG1006  
 DATE: 1-25-08  
 GEOLOGIST: Vince Shickora  
 DRILLER: Luke Reiss

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ***
					OK	Brown	Sandy Silt with some gravel (fill)		moist	0000			
Tire 0900	S-1 1				ORG	Brown	FGR to CGR Sand and fine to coarse gravel		moist	0000			
							Trace Silt.						
D908	3				ORG	Brown	Same as above		moist	0000			
	5	50" / 60"			ORG	Brown	Same as above		moist	0000			
	S-2				ORG	Brown	Same as above		moist	0000			
	7				ORG	Brown	Same as above		moist	0000			
0912	9	51" / 60"			ORG	Brown	Sandy Silt with fine to medium gravel		moist	0000			
	S-3 11				ORG	Brown	FGR to CGR Sand and fine to coarse gravel		moist	0000			
	13						Trace Silt.						
0917	15	49" / 60"			ORG	Brown	Same as above.		moist	0000			
	S-4				ORG	Brown	Same as above.		moist	0000			
	17				ORG	Brown	Same as above		moist	0000			
	19				ORG	Brown	Same as above		moist	0000			
0937		51" / 60"			ORG	Brown	Same as above		moist	0000			
	S-5 21				ORG	Brown	Same as above		moist	0000			
	23				ORG	Brown	Same as above		moist	0000			
0955	25	48" / 60"			ORG	Brown	Same as above		moist	0000			

\* When rock coring, enter rock brokeness.

\*\* Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: Geoprobe DPT- 2" x 5' macro-core discrete interval sample with Acetate sleeves

Drilling Area  
Background (ppm):  0

Converted to Well: Yes \_\_\_\_\_ No \_\_\_\_\_ Well I.D. #: \_\_\_\_\_



Tetra Tech NUS, Inc.

**BORING LOG**Page 2 of 2

PROJECT NAME: NWIRP ~~Refugee~~  
 PROJECT NUMBER: 112G00903  
 DRILLING COMPANY: ~~Zebra~~  
 DRILLING RIG: Geoprobe

BORING No.: BPS1 - SG1006  
 DATE: 1-25-08  
 GEOLOGIST: Vince Shickora  
 DRILLER: Luke Reiss

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-6	26				0% Bm		FGR to CGR Sand and fine to coarse gravel trace silt		moist	0	0	0	0
	27												
	28												
	29				0%		Same as above		moist	0	0	0	0
1009	30	49 1/6"	165										
S-7	31												
	32												
	33				0%		Same as above		moist	0	0	0	0
	34												
1029	35	48 1/6"			0%		FGR to CGR Sand and fine gravel - Trace silt and medium gravel		moist	0	0	0	0
S-8	36												
	37												
	38												
	39				0%		Same as above		moist	0	0	0	0
1049	40	46 1/6"											
	41												
	42				0%		Same as above (less CGR sand)		moist	0	0	0	0
	43												
	44												
1122	45	45 1/6"			0%		Same as above		moist	0	0	0	0
	45			EoB									
	47												
	48												
	49												
	50												

\* When rock coring, enter rock brokeness.

\*\* Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1) Refusal at 41' BGS between 40' to 45' sample, and attempting 45' to 50' sample

Drilling Area  
Background (ppm): 

Converted to Well: Yes \_\_\_\_\_ No \_\_\_\_\_ Well I.D. #: \_\_\_\_\_



OVERBURDEN  
MONITORING WELL SHEET  
STICK-UP

WELL NO.: SVPM-11

Tetra Tech NUS, Inc. *Prestressing for Permanent Soil Gas Monitoring Point*

PROJECT <u>NWRP Bettapage</u>	LOCATION <u>Site 1</u>	DRILLER <u>Luke Reiss</u>
PROJECT NO. <u>C70-0020</u>	BORING	DRILLING METHOD <u>Geoprobe</u>
DATE BEGUN <u>1-22-08</u>	DATE COMPLETED <u>1-22-08</u>	DEVELOPMENT METHOD
FIELD GEOLOGIST	DATUM	
GROUND ELEVATION		

ACAD: FORM\_JMWSU.dwg  
07/20/99 INL

	ELEVATION/HEIGHT OF TOP OF SURFACE CASING:	/ NA
	ELEVATION/HEIGHT OF TOP OF RISER PIPE:	/ NA
	TYPE OF SURFACE SEAL:	NA
	I.D. OF SURFACE CASING:	
	TYPE OF SURFACE CASING:	
	RISER PIPE I.D.:	
	TYPE OF RISER PIPE:	
	BOREHOLE DIAMETER:	
	TYPE OF BACKFILL:	
	ELEVATION/DEPTH TOP OF SEAL:	/ 35'
	TYPE OF SEAL:	Bentonite
	DEPTH TOP OF SAND PACK:	/ 38'
	ELEVATION/DEPTH TOP OF SCREEN:	/ 45'
	TYPE OF SCREEN:	Stainless Steel
	SLOT SIZE x LENGTH:	/ NA
	I.D. OF SCREEN:	/ NA
	TYPE OF SAND PACK:	/ NA
	ELEVATION/DEPTH BOTTOM OF SCREEN:	/ 49'
	ELEVATION/DEPTH BOTTOM OF SAND PACK:	
	BACKFILL MATERIAL BELOW SAND:	/ NA
	ELEVATION/DEPTH OF HOLE:	/ 50'



OVERBURDEN  
MONITORING WELL SHEET  
STICK-UP

WELL NO.: SVPN-US

Tetra Tech NUS, Inc. Retrofitting for Permanent Soil Gas Monitoring Point

PROJECT <u>NWIRP Bethpage</u>	LOCATION <u>Sit 1</u>	DRILLER <u>luke Reiss</u>
PROJECT NO. <u>CTO-002</u>	BORING	DRILLING METHOD <u>Geoprobe</u>
DATE BEGUN <u>1-22-08</u>	DATE COMPLETED <u>1-22-08</u>	DEVELOPMENT METHOD
FIELD GEOLOGIST	DATUM	
GROUND ELEVATION		

ACAD:FORM\_MWSU.dwg 07/20/99 INL

Soil Gas tubing 1/4"

ELEVATION/HEIGHT OF TOP OF SURFACE CASING:	/NA
ELEVATION/HEIGHT OF TOP OF RISER PIPE:	/NA
TYPE OF SURFACE SEAL:	NA
I.D. OF SURFACE CASING:	
TYPE OF SURFACE CASING:	
RISER PIPE I.D.:	
TYPE OF RISER PIPE:	
BOREHOLE DIAMETER:	
TYPE OF BACKFILL:	
ELEVATION/DEPTH TOP OF SEAL:	, 10'
TYPE OF SEAL:	Bentonite
DEPTH TOP OF SAND PACK:	, 13'
ELEVATION/DEPTH TOP OF SCREEN:	, 20'
TYPE OF SCREEN:	Stainless Steel
SLOT SIZE x LENGTH:	/NA
I.D. OF SCREEN:	NA
TYPE OF SAND PACK:	NA
ELEVATION/DEPTH BOTTOM OF SCREEN:	, 24'
ELEVATION/DEPTH BOTTOM OF SAND PACK:	
BACKFILL MATERIAL BELOW SAND:	/NA
ELEVATION/DEPTH OF HOLE:	, 25'



Tetra Tech NUS, Inc.

WELL NO.: SVPM-12

**OVERBURDEN  
MONITORING WELL SHEET  
STICK-UP**

*Retrofitting for Permanent Soil Gas Monitoring Point*

PROJECT <u>NMARP Bethpage</u>	LOCATION <u>Site 1</u>	DRILLER <u>luke Reiss</u>
PROJECT NO. <u>C70-002</u>	BORING	DRILLING METHOD <u>Geoprobe</u>
DATE BEGUN <u>1-22-08</u>	DATE COMPLETED <u>1-22-08</u>	DEVELOPMENT METHOD
FIELD GEOLOGIST	DATUM	
GROUND ELEVATION		

ACAD:FORM\_MWSU.dwg 07/20/99 INL

	ELEVATION/HEIGHT OF TOP OF SURFACE CASING:	<u>NA</u>
	ELEVATION/HEIGHT OF TOP OF RISER PIPE:	<u>NA</u>
	TYPE OF SURFACE SEAL:	<u>NA</u>
	I.D. OF SURFACE CASING:	
	TYPE OF SURFACE CASING:	
	RISER PIPE I.D.:	
	TYPE OF RISER PIPE:	
	BOREHOLE DIAMETER:	
	TYPE OF BACKFILL:	
	ELEVATION/DEPTH TOP OF SEAL:	<u>37'</u>
	TYPE OF SEAL:	<u>Bentonite</u>
	DEPTH TOP OF SAND PACK:	<u>40'</u>
	ELEVATION/DEPTH TOP OF SCREEN:	<u>46'</u>
	TYPE OF SCREEN:	<u>Stainless steel</u>
	SLOT SIZE x LENGTH:	<u>NA</u>
I.D. OF SCREEN:	<u>NA</u>	
TYPE OF SAND PACK:	<u>NA</u>	
ELEVATION/DEPTH BOTTOM OF SCREEN:	<u>50'</u>	
ELEVATION/DEPTH BOTTOM OF SAND PACK: BACKFILL MATERIAL BELOW SAND:	<u>NA</u>	
ELEVATION/DEPTH OF HOLE:	<u>52.1'</u>	



WELL NO.: SVPM-12S

**OVERBURDEN  
MONITORING WELL SHEET  
STICK-UP**

Tetra Tech NUS, Inc.

*Retrofitting for Permanent Soil Gas Monitoring Point*

PROJECT <u>NWIRP Bethpage</u>	LOCATION <u>Site 1</u>	DRILLER <u>Luke Reles</u>
PROJECT NO. <u>CW-1002</u>	BORING	DRILLING METHOD <u>Geoprobe</u>
DATE BEGUN <u>1-22-08</u>	DATE COMPLETED <u>1-22-08</u>	DEVELOPMENT METHOD
FIELD GEOLOGIST	DATUM	
GROUND ELEVATION		

ACAD:FORM\_MWSU.dwg 07/20/99 INL

	ELEVATION/HEIGHT OF TOP OF SURFACE CASING:	/NA
	ELEVATION/HEIGHT OF TOP OF RISER PIPE:	/NA
	TYPE OF SURFACE SEAL:	/NA
	I.D. OF SURFACE CASING:	
	TYPE OF SURFACE CASING:	
	RISER PIPE I.D.:	
	TYPE OF RISER PIPE:	
	BOREHOLE DIAMETER:	
	TYPE OF BACKFILL:	
	ELEVATION/DEPTH TOP OF SEAL:	/12'
	TYPE OF SEAL:	Bentonite
	DEPTH TOP OF SAND PACK:	/15'
	ELEVATION/DEPTH TOP OF SCREEN:	/21'
	TYPE OF SCREEN:	Stainless steel
	SLOT SIZE x LENGTH:	/NA
I.D. OF SCREEN:	/NA	
TYPE OF SAND PACK:	/NA	
ELEVATION/DEPTH BOTTOM OF SCREEN:	/25'	
ELEVATION/DEPTH BOTTOM OF SAND PACK:	/27.1'	
BACKFILL MATERIAL BELOW SAND:	/NA	
ELEVATION/DEPTH OF HOLE:	/27.1'	



**APPENDIX C**  
**SOIL GAS SAMPLING LOG SHEETS**



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Page 1 of 1

BPS1-SG1001-07

Site 1

TR

**Project Site Name:** NWIRP Bethpage Site 1  
**Project No.:** 112GN9845  
**C.O.C. No.:**

**Sample ID No.:**  
**Sample Location:**  
**Sampled By:**

### SAMPLING DATA:

Date:	1/24/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	1540	(Visual)	W	30s			
Method:	Soil Gas	5-10 mph					

Summa Canister #	33939
Filter Type	2 µM

Start Time Vacuum	1552 in Hg -30
End Time Vacuum	1640 in Hg -4

He check	Start	Stop	Reading
	1543		1547 350 PPM
Purge Data	Start	Stop	
	1540		1552

### Readings:

#### Liters/minute

- .1989 @ 1543
- .2076 @ 1547
- .2001 @ 1532

#### Notes:

Soil Gas PID: 3.2 PPM



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:

Sample ID No.:  
Sample Location:  
Sampled By:

Page 1 of 1  
BPS1-SG1001-20  
Site 1  
TR

### SAMPLING DATA:

Date:	1/24/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	1556	(Visual)	W	30s			
Method:	Soil Gas	5-10 mph					

Summa Canister # 4184

Filter Type 2 µM

Start Time Vacuum 1612 in Hg -30

End Time Vacuum 1700 in Hg -4

He check	Start	Stop	Reading
	1557		1600 50 PPM
Purge Data	Start	Stop	

### Readings:

#### Liters/minute

- .1942 @ 1600
- .1712 @ 1603
- .1546 @ 1606
- .1853 @ 1610

#### Notes:

PID battery dead



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Page 1 of 1

BPS1-SG1001-40

Site 1

TR

**Project Site Name:** NWIRP Bethpage Site 1  
**Project No.:** 112GN9845  
**C.O.C. No.:**

**Sample ID No.:**  
**Sample Location:**  
**Sampled By:**

### SAMPLING DATA:

Date:	1/25/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	0944	(Visual)	W	40s			
Method:	Soil Gas	5-10 mph					

**Summa Canister #** 4069

**Filter Type** 2 µM

**Start Time Vacuum** 0958 in Hg -29

**End Time Vacuum** 1040 in Hg -4

He check	Start	Stop	Reading
	0948	0952	0.0
<b>Purge Data</b>	<b>Start</b>	<b>Stop</b>	
	0944	0957	

### Readings:

#### Liters/minute

- .1634 @ 0949
- .1799 @ 0953
- .1698 @ 0956

### Notes:

PID battery dead



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

**Project Site Name:** NWIRP Bethpage Site 1  
**Project No.:** 112GN9845  
**C.O.C. No.:**

**Sample ID No.:** BPS1-SG1002-08 & FD-012308  
**Sample Location:** Site 1  
**Sampled By:** TR

**Page 1 of 1**

### SAMPLING DATA:

Date:	1/23/2008	Wind speed	Wind Direction	Ambient temperature	Barometric Pressure	Relative Humidity	Other
Time:	1459	(Visual)	(S.U.)	(°C)	(°C)	(%)	
Method:	Soil Gas	5-10 mph	SW	30s			

Summa Canister #	33681
Filter Type	2 UM

Start Time Vacuum	1512 in Hg
End Time Vacuum	-30 in Hg

He check	Start	Stop	Reading
Purge Data	Start	Stop	0.0 ppm
	1459	1511	

### Readings:

#### Liters/minute

.1916 @ 1501  
.1816 @ 1506  
.1972 @ 1509

#### Notes:

Soil Gas PID: 0.6 PPM



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

**Project Site Name:** NWIRP Bethpage Site 1  
**Project No.:** 112GN9845  
**C.O.C. No.:**

**Sample ID No.:** BPS1-SG1002-20  
**Sample Location:** Site 1  
**Sampled By:** TR

### SAMPLING DATA:

Date:	1/24/2008	Wind speed	Wind Direction	Ambient temperature	Barometric Pressure	Relative Humidity	Other
Time:	0933	(Visual)	(S.U.)	(°C)	(°C)	(%)	
Method:	Soil Gas	5-10 mph	W	30s			

Summa Canister #	35154
Filter Type	2 $\mu$ M

Start Time Vacuum	0945	in Hg >-30
End Time Vacuum	1357	in Hg -5

He check	Start	Stop	Reading
Purge Data	Start	Stop	0.0 ppm
	0933	0945	

### Readings:

#### Liters/minute

- .1671 @ 0934
- .2160 @ 0943
- .1882 @ 0945

#### Notes:

Soil Gas PID: 2 PPM



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:

Sample ID No.:  
Sample Location:  
Sampled By:

Page 1 of 1  
BPS1-SG1002-45

Site 1  
TR

### SAMPLING DATA:

Date:	1/24/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	0951	(Visual)	W	30s			
Method:	Soil Gas	5-10 mph					

Summa Canister #	4355
Filter Type	2 µM

Start Time Vacuum	1004 in Hg -30
End Time Vacuum	1050 in Hg -4

He check	Start	Stop	Reading
	0954		958 550 PPM
Purge Data	Start	Stop	
	0951		1003

### Readings:

#### Liters/minute

- .1857 @ 0953
- .1952 @ 0959
- .1926 @ 1003

#### Notes:

Soil Gas PID: 0.5 PPM



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:

Sample ID No.: BPS1-SG1003-05.5  
Sample Location: Site 1  
Sampled By: TR

## SAMPLING DATA:

Date:	1/22/2008	Wind speed (Visual)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	1450					
Method:	Soil Gas	5-10 mph	SW	20's		

Summa Canister #	4384
Filter Type	2 uM

Start Time Vacuum	1506	in Hg	-29
End Time Vacuum	1552	in Hg	-4

He check	Start	Stop	Reading
	1443		1448 0.0 ppm
Purge Data	Start	Stop	
	1450		1505

## Readings:

## Liters/minute

- .1635 @ 1455
- .2177 @ 1500
- .2045 @ 1502

## Notes:

Soil Gas PID: 0.2 PPM



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:

Sample ID No.: BPS1-SG1003-20  
Sample Location: Site 1  
Sampled By: TR

Page 1 of 1

### SAMPLING DATA:

Date:	1/22/2008	Wind speed	Wind Direction	Ambient temperature	Barometric Pressure	Relative Humidity	Other
Time:	1521	(Visual)	(S.U.)	(°C)	(°C)	(%)	
Method:	Soil Gas	5-10 mph	SW	20's			

Summa Canister #	33965
Filter Type	2 $\mu$ M

Start Time Vacuum	1534	Hg >-30
End Time Vacuum	1622	Hg -4

He check	Start	Stop	Reading
Purge Data	Start	Stop	400 ppm
	1521	1533	

### Readings:

#### Liters/minute

.1935 @ 1527  
.2052 @ 1529  
.2017 @ 1532

#### Notes:

Soil Gas PID: 0.0 PPM



Tetra Tech NUS, Inc.

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:

Page 1 of 1

BPS1-SG1003-45

Site 1  
TR

Sample ID No.:  
Sample Location:  
Sampled By:

**SAMPLING DATA:**

Date:	1/23/2008	Wind speed (Visual)	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	1009	5-10 mph	SW	30s			
Method:	Soil Gas						

Summa Canister #	34350
Filter Type	2 uM

Start Time Vacuum	1020	in Hg	-29.5
End Time Vacuum	1108	in Hg	-4

He check	Start	Stop	Reading
Purge Data	Start	Stop	0.0 ppm
		1009	1020

**Readings:**

**Liters/minute**

.1829 @ 1010  
.2535 @ 1016  
.1907 @ 1019

**Notes:**

Soil Gas PID: 1.8 PPM



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:Sample ID No.: BPS1-SG1004-05.5  
Sample Location: Site 1  
Sampled By: TR

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Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:Sample ID No.: BPS1-SG1004-05.5  
Sample Location: Site 1  
Sampled By: TR

Page 1 of 1

## SAMPLING DATA:

Date:	1/22/2008	Wind speed	Wind Direction	Ambient temperature	Barometric Pressure	Relative Humidity (%)	Other
Time:	0923	(Visual)	(S.U.) SW	(°C) 20's	(°C)	(%)	
Method:	Soil Gas	5-10 mph					

Summa Canister #	33940
Filter Type	2 uM

Start Time/Vacuum	0938	in Hg -30
End Time/Vacuum	1021	in Hg -4

He check	Start	Stop	Reading
	0924	0929	<10%
Purge Data	Start	Stop	
	0923	0938	

## Readings:

## Liters/minute

- .1325 @ 0925
- .1455 @ 0933
- .1614 @ 0937

Soil Gas PID: 0.2 PPM

**Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET**

**Project Site Name:** NWIRP Bethpage Site 1  
**Project No.:** 112GN9845  
**C.O.C. No.:**

**Sample ID No.:** BPS1-SG1004-22  
**Sample Location:** Site 1  
**Sampled By:** TR

**SAMPLING DATA:**

Date:	1/22/2008	Wind speed (Visual)	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	1038						
Method:	Soil Gas	5-10 mph	SW	20's			

Summa Canister #	95680
Filter Type	2 uM

Start Time Vacuum	1054	in Hg >-30
End Time Vacuum	1140	in Hg -5

He check	Start	Stop	Reading
		1038	1042 0.0 ppm
Purge Data	Start	Stop	

**Readings:**  
**Liters/minute**  
.1747 @ 1041  
.1749 @ 1044

**Notes:**

Soil Gas PID: 0.2 PPM



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

**Project Site Name:** NWIRP Bethpage Site 1  
**Project No.:** 112GN9845  
**C.O.C. No.:**

**Sample ID No.:** BPS1-SG1004-46  
**Sample Location:** Site 1  
**Sampled By:** TR

### SAMPLING DATA:

Date:	1/25/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	0814	(Visual)	W	40s			
Method:	Soil Gas	5-10 mph					

Summa Canister #	937
Filter Type	2 µM

Start Time Vacuum	0826	in Hg -30
End Time Vacuum	0930	in Hg -4

He check	Start	Stop	Reading
	0820	0824	0.0
Purge Data	Start	Stop	

### Readings:

**Liters/minute**  
.1426 @ 0814  
.1606 @ 0820  
.1677 @ 0826

**Notes:**  
PID battery dead



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:

Sample ID No.:  
Sample Location:  
Sampled By:

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BPS1-SG1005-08

Site 1

TR

### SAMPLING DATA:

Date:	1/28/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	1309	(Visual)	W	40s			
Method:	Soil Gas	5-10 mph					

Summa Canister #	1
Filter Type	2 µM

Start Time Vacuum	1321	in Hg -30
End Time Vacuum	1410	in Hg -3.5

He check	Start	Stop	Reading
	1312	1315	850 ppm
Purge Data	Start	Stop	
	1309	1321	

### Readings:

#### Liters/minute

.1556 @ 1310  
.1717 @ 1314  
.1905 @ 1316  
.2005 @ 1320

### Notes:



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:

Sample ID No.:  
Sample Location:  
Sampled By:

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BPS1-SG1005-20

Site 1

TR

### SAMPLING DATA:

Date:	1/28/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	1158	(Visual)	W	40s			
Method:	Soil Gas	5-10 mph					

Summa Canister #	3710
Filter Type	2 µM

Start Time Vacuum	1211	in Hg -29.5
End Time Vacuum	1304	in Hg -3.5

He check	Start	Stop	Reading
	1200	1213	125 ppm
Purge Data	Start	Stop	
	1158	1211	

### Readings:

#### Liters/minute

- .1506 @ 1158
- .1469 @ 1202
- .1448 @ 1205
- .1561 @ 1208
- .1563 @ 1211

#### Notes:

PID battery dead



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.: \_\_\_\_\_

Sample ID No.: \_\_\_\_\_  
Sample Location: \_\_\_\_\_  
Sampled By: \_\_\_\_\_

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BPS1-SG1005-45

Site 1

TR

### SAMPLING DATA:

Date:	1/28/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	1139	(Visual)	W	40s			
Method:	Soil Gas	5-10 mph					

Summa Canister # 14008

Filter Type 2 µM

Start Time Vacuum 1151 in Hg -28.5

End Time Vacuum 1233 in Hg -3.5

He check	Start	Stop	Reading
	1142	1145	75 ppm
Purge Data	Start	Stop	
	1139	1151	

### Readings:

#### Liters/minute

- .1584 @ 1139
- .2073 @ 1145
- .1633 @ 1148
- .1584 @ 1150

### Notes:

PID battery dead



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:

Sample ID No.:  
Sample Location:  
Sampled By:

Page 1 of 1  
BPS1-SG1006-07  
Site 1  
TR

### SAMPLING DATA:

Date:	1/29/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	0848	(Visual)	W	30s			
Method:	Soil Gas	5-10 mph					

Summa Canister #	22504
Filter Type	2 µM

Start Time Vacuum	0900	in Hg -30
End Time Vacuum	0948	in Hg -4

He check	Start	Stop	Reading
	0851	0854	0.0
Purge Data	Start	Stop	
	0848	0900	

### Readings:

#### Liters/minute

- .1508 @ 0850
- .1656 @ 0853
- .1982 @ 0858
- .2007 @ 0900

### Notes:

PID battery dead



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

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BPS1-SG1006-20

Site 1

TR

**Project Site Name:** NWIRP Bethpage Site 1  
**Project No.:** 112GN9845  
**C.O.C. No.:**

**Sample ID No.:**  
**Sample Location:**  
**Sampled By:**

### SAMPLING DATA:

Date:	1/28/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	1550	(Visual)	W	40s			
Method:	Soil Gas	5-10 mph					

Summa Canister #	31139
Filter Type	2 µM

Start Time Vacuum	1603	in Hg -30
End Time Vacuum	1704	in Hg -3.5

He check	Start	Stop	Reading
	1553	1555	0.0
Purge Data	Start	Stop	
	1550	1603	

### Readings:

#### Liters/minute

- .1642 @ 1551
- .1360 @ 1556
- .1639 @ 1558
- .1599 @ 1602

### Notes:

PID battery dead



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

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BPS1-SG1006-45

Site 1

TR

**Project Site Name:** NWIRP Bethpage Site 1  
**Project No.:** 112GN9845  
**C.O.C. No.:**

**Sample ID No.:**

**Sample Location:**

**Sampled By:**

### SAMPLING DATA:

Date:	1/28/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	1534	(Visual)	W	40s			
Method:	Soil Gas	5-10 mph					

**Summa Canister #** 33944

**Filter Type** 2 µM

**Start Time Vacuum** 1549 in Hg -30

**End Time Vacuum** 1640 in Hg -4

He check	Start	Stop	Reading
	1538	1541	125 ppm
<b>Purge Data</b>	<b>Start</b>	<b>Stop</b>	
	1534	1549	

### Readings:

#### Liters/minute

.2184 @ 1537  
.1168 @ 1540  
.1385 @ 1544  
.1513 @ 1548

### Notes:

PID battery dead



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:

Sample ID No.: SVPM11S-24  
Sample Location: Site 1  
Sampled By: TR

Page 1 of 1

### SAMPLING DATA:

Date:	1/23/2008	Wind speed (Visual)	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	1332	5-10 mph	SW	30s			
Method:	Soil Gas						

Summa Canister #	34427
Filter Type	2 uM

Start Time Vacuum	1345	in Hg -30
End Time Vacuum	1432	in Hg -4

He check	Start	Stop	Reading
	1334	1339	1125
Purge Data	Start	Stop	
	1332	1344	

### Readings:

#### Liters/minute

.1505 @ 1333  
.1936 @ 1339  
.1788 @ 1342

#### Notes:

Soil Gas PID: 3.0 PPM



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.: \_\_\_\_\_

Sample ID No.: SVPM11-49  
Sample Location: Site 1  
Sampled By: TR

SAMPLING DATA:

Date:	1/23/2008	Wind speed	Wind Direction	Ambient temperature	Barometric Pressure	Relative Humidity (%)	Other
Time:	1411	(Visual)	(S.U.)	(°C)	(°C)	(%)	
Method:	Soil Gas	5-10 mph	SW	30s			

Summa Canister #	34455
Filter Type	2 µM

Start Time Vacuum	1426 in Hg	-30
End Time Vacuum	1578 in Hg	-3.5

He check	Start	Stop	Reading
	1413	1418	525
Purge Data	Start	Stop	
	1411	1426	

Readings:

Liters/minute  
1682 @ 1413  
.1353 @ 1419  
.1215 @ 1423

Notes:

Soil Gas PID: 0.9 PPM



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

**Project Site Name:** NWIRP Bethpage Site 1  
**Project No.:** 112GN9845  
**C.O.C. No.:**

**Sample ID No.:** SVPMP12S-25  
**Sample Location:** Site 1  
**Sampled By:** TR

### SAMPLING DATA:

Date:	1/23/2008	Wind speed	Wind Direction	Ambient temperature	Barometric Pressure	Relative Humidity	Other
Time:	0815	(Visual)	(S.U.)	(°C)	(°C)	(%)	
Method:	Soil Gas	5-10 mph	SW	30s			

Summa Canister #	94611
Filter Type	2 UM

Start Time Vacuum	0829	in Hg	-28.5
End Time Vacuum	0917	in Hg	-4

He check	Start	Stop	Reading
	0821	0826	150 ppm
Purge Data	Start	Stop	
	0815	0827	

### Readings:

#### Liters/minute

.2120 @ 0819  
.1879 @ 0825  
.1903 @ 0827

#### Notes:

Soil Gas PID: 9.0 PPM



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.: \_\_\_\_\_

Sample ID No.: SV/PM12-50  
Sample Location: Site 1  
Sampled By: TR

### SAMPLING DATA:

Date:	1/23/2008	Wind speed	Wind Direction	Ambient temperature	Barometric Pressure	Relative Humidity	Other
Time:	0830	(Visual)	(S.U.)	(°C)	(°C)	(%)	
Method:	Soil Gas	5-10 mph	SW	30s			

Summa Canister #	9408
Filter Type	2 UM

Start Time Vacuum	0843	in Hg	-28.5
End Time Vacuum	0930	in Hg	-3.5

He check	Start	Stop	Reading
	0831	0835	25 ppm
Purge Data	Start	Stop	
	0830	0842	

### Readings:

Liters/minute  
.2219 @ 0833  
.1633 @ 0836  
.1713 @ 0838

### Notes:

Soil Gas PID: 2.8 PPM



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

**Project Site Name:** NWIRP Bethpage Site 1  
**Project No.:** 112GN9845  
**C.O.C. No.:**

**Sample ID No.:** BPS1-FB1001-00  
**Sample Location:** Site 1  
**Sampled By:** TR

### SAMPLING DATA:

Date:	1/22/2008	Wind speed	Ambient temperature	Barometric Pressure	Relative Humidity	Other
Time:	0900	(Visual)	(°C)	(°C)	(%)	
Method:	Soil Gas	5-10 mph	SW	20's		

Summa Canister #	33882
Filter Type	2 µM

Start Time Vacuum	0900	in Hg	-30
End Time Vacuum	1628	in Hg	-8

He check	Start	Stop	Reading
N/A			n/a
Purge Data	Start	Stop	
N/A			

### Readings:

Notes:	
Canister check Time	in Hg
1000	-24
1113	-16
1503	-11



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

**Project Site Name:** NWIRP Bethpage Site 1  
**Project No.:** 112GN9845  
**C.O.C. No.:**

**Sample ID No.:** BPS1-FB1002-00  
**Sample Location:** Site 1  
**Sampled By:** TR

Page 1 of 1

### SAMPLING DATA:

Date:	1/23/2008	Wind speed	Wind Direction	Ambient temperature	Barometric Pressure	Relative Humidity (%)	PID (ppm)	Other
Time:	0749	(Visual)	(S.U.)	(°C)	(°C)	(%)		
<b>Method:</b>	Soil Gas	5-10 mph	SW	30S				

<b>Summa Canister #</b>	34752
<b>Filter Type</b>	2 $\mu$ M

<b>Start Time Vacuum</b>	0749 in Hg -30
<b>End Time Vacuum</b>	1600 in Hg -5.5

He check	Start	Stop	Reading
	1522	1527	400 ppm
<b>Purge Data</b>	<b>Start</b>	<b>Stop</b>	
	1450	1505	

### Readings:

### Notes:

<b>Canister Check</b>	Time	in Hg	Field blank placed 20-50 feet upwind of west of sample SVP1M12S-25, SVP1M12S-50, BPS1-SG1003-45, SVP1M-11S-24, SVP1M11-49, BPS1-SG1002-08
	0850	-26	
	1030	-19.5	
	1340	-10	
	1440	-8.5	
	1600	-5.5	



Tetra Tech NUS, Inc.

## SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:

Page 1 of 1

BPS1-FB1003-00

Site 1

TR

### SAMPLING DATA:

Date:	1/24/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	PID (ppm)	Other
Time:	0924	(Visual)	W	30S				
Method:	Soil Gas	5-10 mph						

Summa Canister #	34370
Filter Type	2 uM

Start Time Vacuum	0924	in Hg >-30
End Time Vacuum	1700	in Hg -6.5

He check	Start	Stop	Reading
N/A			
Purge Data	Start	Stop	
N/A			

### Readings:

### Notes:

canister checks	time	in Hg		
	1026	-27		
	1300	-17	Field blank placed 20-50 feet upwind of west of sample BPS1-SG1002-20, BPS1-SG1002-45, BPS1-SG1001-07, BPS1-SG1001-20	
	1400	-13.5		
	1500	-10.5		
	1614	-8		
	1700	-6.5		



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:

Sample ID No.:  
Sample Location:  
Sampled By:

Page 1 of 1  
BPS1-FB1004-00  
Site 1  
TR

### SAMPLING DATA:

Date:	1/25/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	0804	(Visual)	W	40s			
Method:	Soil Gas	5-10 mph					

Summa Canister #	33968
Filter Type	2 µM

Start Time Vacuum	0804	in Hg -30
End Time Vacuum	1046	in Hg -20

He check	Start	Stop	Reading
N/A			
Purge Data	Start	Stop	
N/A			

### Readings:

Notes:	canister check	time	in Hg	Field blank placed 20-50 feet upwind of west of sample BPS1-SG1004-46, BPS1-SG1001-40,
		0938	25.5	



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

**Project Site Name:** NWIRP Bethpage Site 1  
**Project No.:** 112GN9845  
**C.O.C. No.:**

**Sample ID No.:** BPS1-FB1005-00  
**Sample Location:** Site 1  
**Sampled By:** TR

### SAMPLING DATA:

Date:	1/28/2008	Wind speed	Wind Direction (S.U.)	Ambient temperature (°C)	Barometric Pressure (°C)	Relative Humidity (%)	Other
Time:	1113	(Visual)	W	40s			
Method:	Soil Gas	5-10 mph					

Summa Canister #	34419
Filter Type	2 µM

Start Time Vacuum	1113	in Hg -30
End Time Vacuum	1411	in Hg -2

He check	Start	Stop	Reading
N/A			
Purge Data	Start	Stop	
N/A			

### Readings:

### Notes:

canister checks	time	in Hg	Field blank placed 20-50 feet upwind of west of sample BPS1-SG1005-45, BPS1-SG1005-20, BPS1-SG1005-08, BPS1-SG1006-45, BPS1-SG1006-20
	1205	-17	
	1253	-9	
	1335	-4.5	
	1351	-3	
	1411	-2	



## Tetra Tech NUS, Inc. SOIL GAS SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1  
Project No.: 112GN9845  
C.O.C. No.:

Sample ID No.:  
Sample Location:  
Sampled By:

Page 1 of 1  
BPS1-FB1006-00  
Site 1  
TR

### SAMPLING DATA:

Date:	1/29/2008	Wind speed	Wind Direction	Ambient temperature	Barometric Pressure	Relative Humidity	Other
Time:	0830	(Visual)	(S.U.)	(°C)	(°C)	(%)	
Method:	Soil Gas	5-10 mph	W	30s			

Summa Canister #	423
Filter Type	2 µM

Start Time Vacuum	0830	in Hg -30
End Time Vacuum	0955	in Hg -24

He check	Start	Stop	Reading
N/A			
Purge Data	Start	Stop	
N/A			

Readings:

Notes:

Field blank placed 20-50 feet upwind of west of sample BPS1-SG1006-07



**APPENDIX D**  
**CHAIN OF CUSTODY RECORDS**

**Sample Transportation Notice**

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national and international laws, regulations, and ordinances of any kind. Air Toxics Limited assures no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline: (800) 467-4622.

**CHAIN-OF-CUSTODY RECORD**Project Manager Dave Beayack (757) 461-3824Collected by: (Print and Sign) TERRY ROJAHNCompany TEKRA TECH Email terry\_rejahn@tekra-tech.comAddress 661 ANDERSEN City PITTSBURGH State PA Zip 15220Phone (412) 921-7090 Fax (412) 921-4046**Project Info:**P.O. # SEMProject # 1126N9845Project Name MWIRP Bethpage

Lab I.D.	Field Sample I.D. (Location)	Can #	Date	Time	Time of Collection	Analyses Requested	Canister Pressure Vacuum		
							Initial	Final	Receipt
01A6	BPSI - FB 1001 - 00	338832	1-22	0900	TO15		-30	-8	
02A6	BPSI - SG 1004- 05.5	33940	1-22	0938	TO15		-30	-4	
03A6	BPSI - SG 1004- 22	95680	1-22	1054	TO15		>-30	-5	
04A6	BPSI - SG 1003-05.5	4384	1-22	1506	TO15		-29	-4	
05A6	BPSI - SG 1003- 20	33965	1-22	1534	TO15		>-30	-4	
06A6	S VPM 125-25	94611	1-23	0829	TO15		28.5	-4	
07A6	S VPM 12-50	9408	1-23	0843	TO15		28.5	-3.5	
08A6	BPSI - FB 1002- 00	34752	1-23	0749	TO15		-30	-5.5	
09A6	BPSI - SG 1003- 45	34350	1-23	1019	TO15		-29.5	-4	
10A6	S VPM 115-24	34427	1-23	1345	TO15		>-30	-4	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	Notes:					
<u>Terry Rejahn</u>	<u>1/23/03</u>	<u>1800</u>	<u>1800</u>						
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time						
		<u>AJ</u>	<u>1/24/03</u>						
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time						
		<u>AJ</u>	<u>1/24/03</u>						
Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals intact?	Work Order #			
	<u>FedEx</u>	<u>8626 9924 2644</u>	<u>N/A</u>	<u>Good</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>0801438</u>		



0801438

## CHAIN OF CUSTODY

NUMBER 112CN 9845-01

PAGE 1 OF 1

PROJECT NO: 112CN 9845-002 SITE NAME: *WATER*  
 112CN 9845-002 FIELD OPERATIONS LEADER AND PHONE NUMBER  
 SAMPLERS (SIGNATURE) *BETH PRICE*

PROJECT MANAGER AND PHONE NUMBER:  
**David Brack** (757) 461-3824  
 ADDRESS 180 BLUE RAVINE ROAD  
 SUITE B

*Tony Neal*

TIME	SAMPLE ID	MATRIX	GRAMS	NO. OF CONTAINERS	PRESERVATIVE USED	CONTAINER TYPE METAL (S) PLASTIC (P) OR GLASS (G)	CITY, STATE	LABORATORY NAME AND CONTACT:
1/23 1426 28PM 11-49	G45	G	1	1			Folsom, CA	112CN 9845-01
1/23 1512 BPS1- SG1002-08	G45	G	1	1				
1/23 0000 FD - 012308	G45	G	1	1				

D-2

1. RElinquished BY <i>Tony Neal</i>	DATE 1-23-08	TIME 1800	1. RECEIVED BY	FEDERAL EXPRESS	DATE 1-23-08	TIME 1800
2. RElinquished BY	DATE	TIME	2. RECEIVED BY		DATE	TIME
3. RElinquished BY	DATE	TIME	3. RECEIVED BY		DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE)

YELLOW (FIELD COPY)

FORM NO. TNS-001 239





**Air Toxics HTP**

**CHAIN-OF-CUSTODY RECORD**

## Sample Transportation Notice

180 BLUE RAVINE ROAD, SUITE B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX (916) 985-1020

11

Project Manager <u>Dave Brayack (757) 461-3824</u>		Project Info:						
Collected by: (initial and sign) <u>TERRY ROJAHN</u>		Turn Around Time:	Pressurized by: _____					
Company <u>FEDERAL EXPRESS</u> Address <u>661 Alexander Dr., City Pittsburgh, State PA Zip 15220</u>		Date: _____	Date: _____					
P.O. # _____ Project # <u>112 GAN 9845</u>		Presurization Gas: _____						
Phone <u>(412) 921-7090</u> Fax <u>(412) 921-4040</u>		N _____						
		N _____						
Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Receipt
01A/B	BPSI-FB1005-00	34419	1-28-08	1113	TO 15	>30	-2	
02A/B	BPSI-SG1005-45	14008	1-28-08	1151	TO 15	-28.5	-3.5	
03A/B	BPSI-SG1005-20	3710	1-28-08	1211	TO 15	-29.5	-3.5	
04A/B	BPSI-SG1005-08	1	1-28-08	1321	TO 15	>-30	-3.5	
05A/B	BPSI-SG1006-45	33944	1-28-08	1549	TO 15	>-30	-4	
06A/B	BPSI-SG1006-20	31139	1-28-08	1603	TO 15	>-30	-3.5	
07A/B	BPSI-FB1006-00	423	1-29-08	0830	TO 15	-30	-24	
08A/B	BPSI-SG1006-07	22504	1-29-08	0900	TO 15	>-30	-4	
Relinquished by: (signature) Date/Time <u>M. H. H. 1/29/08 @ 1600</u>		Received by: (signature) Date/Time <u>FEDERAL EXPRESS 1/29/08 @ 1600</u>		Notes: <u>FED EX 4B/T</u>				
Relinquished by: (signature) Date/Time		Received by: (signature) Date/Time		Relinquished by: (signature) Date/Time				
Relinquished by: (signature) Date/Time		Received by: (signature) Date/Time		Relinquished by: (signature) Date/Time				
Lab Use Only	Shipper Name <u>Fedex</u>	Air Bill #	Temp (°C) <u>12</u>	Condition <u>Good</u>	Custody Seals Intact? <u>Yes</u>	Work Order # <u>0801530</u>		



**APPENDIX E**  
**DATA ANALYTICAL REPORT**



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

## Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020  
Hours 8:00 A.M to 6:00 P.M. Pacific



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0801481B**

**Work Order Summary**

<b>CLIENT:</b>	Mr. David Brayack Tetra Tech Twin Oaks I, Suite 309 5700 Lake Wright Drive Norfolk, VA 23502	<b>BILL TO:</b>	Accounts Payable/Pittsburg Tetra Tech EC, Inc. Foster Plaza 7 661 Anderson Drive Pittsburgh, PA 15220-2745
<b>PHONE:</b>	(757) 461-3824	<b>P.O. #</b>	
<b>FAX:</b>	(757) 461-4148	<b>PROJECT #</b>	112GN9845 NWIRP BETHPAGE
<b>DATE RECEIVED:</b>	01/28/2008	<b>CONTACT:</b>	Bryanna Langley
<b>DATE COMPLETED:</b>	02/08/2008		

<b>FRACTION #</b>	<b>NAME</b>	<b>TEST</b>	<b>RECEIPT VAC./PRES.</b>	<b>FINAL PRESSURE</b>
04A	BPSI-SG1001-07	Modified TO-15	0.0 "Hg	5 psi
05A	BPSI-SG1001-20	Modified TO-15	0.0 "Hg	5 psi
07A	BPSI-SG1001-40	Modified TO-15	1.5 "Hg	5 psi
08A	Lab Blank	Modified TO-15	NA	NA
09A	CCV	Modified TO-15	NA	NA
10A	LCS	Modified TO-15	NA	NA

CERTIFIED BY:

DATE: 02/08/08

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**LABORATORY NARRATIVE  
Modified TO-15  
Tetra Tech  
Workorder# 0801481B**



Three 6 Liter Summa Canister (100% Certified) samples were received on January 28, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<b>Requirement</b>	<b>TO-15</b>	<b>ATL Modifications</b>
Daily CCV	+/- 30% Difference	</= 30% Difference with two allowed out up to </=40%;; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

#### **Receiving Notes**

There were no receiving discrepancies.

#### **Analytical Notes**

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Sample BPSI-SG1001-07, BPSI-SG1001-20 and BPSI-SG1001-40 were transferred from SIM/Low Level analysis to full scan TO-15 due to high levels of target compounds.

#### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).



---

AN ENVIRONMENTAL ANALYTICAL LABORATORY

- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



---

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020  
Hours 8:00 A.M to 6:00 P.M. Pacific



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0801481**

Work Order Summary

<b>CLIENT:</b>	Mr. David Brayack Tetra Tech Twin Oaks I, Suite 309 5700 Lake Wright Drive Norfolk, VA 23502	<b>BILL TO:</b>	Accounts Payable/Pittsburg Tetra Tech EC, Inc. Foster Plaza 7 661 Anderson Drive Pittsburgh, PA 15220-2745
<b>PHONE:</b>	(757) 461-3824	<b>P.O. #</b>	
<b>FAX:</b>	(757) 461-4148	<b>PROJECT #</b>	112GN9845 NWIRP BETHPAGE
<b>DATE RECEIVED:</b>	01/28/2008	<b>CONTACT:</b>	Bryanna Langley
<b>DATE COMPLETED:</b>	02/08/2008		

<b><u>FRACTION #</u></b>	<b><u>NAME</u></b>	<b><u>TEST</u></b>	<b><u>RECEIPT VAC./PRES.</u></b>	<b><u>FINAL PRESSURE</u></b>
01A	BPSI-FB1003-00	Modified TO-15	4.5 "Hg	5 psi
01B	BPSI-FB1003-00	Modified TO-15	4.5 "Hg	5 psi
02A	BPSI-SG1002-20	Modified TO-15	2.5 "Hg	5 psi
02B	BPSI-SG1002-20	Modified TO-15	2.5 "Hg	5 psi
03A	BPSI-SG1002-45	Modified TO-15	1.5 "Hg	5 psi
03B	BPSI-SG1002-45	Modified TO-15	1.5 "Hg	5 psi
06A	BPSI-SG1004-46	Modified TO-15	0.4psi	5 psi
06B	BPSI-SG1004-46	Modified TO-15	0.4psi	5 psi
08A	BPSI-FB1004-00	Modified TO-15	16.5 "Hg	5 psi
08B	BPSI-FB1004-00	Modified TO-15	16.5 "Hg	5 psi
09A	Lab Blank	Modified TO-15	NA	NA
09B	Lab Blank	Modified TO-15	NA	NA
09C	Lab Blank	Modified TO-15	NA	NA
09D	Lab Blank	Modified TO-15	NA	NA
10A	CCV	Modified TO-15	NA	NA
10B	CCV	Modified TO-15	NA	NA
10C	CCV	Modified TO-15	NA	NA

Continued on next page



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0801481**

Work Order Summary

<b>CLIENT:</b>	Mr. David Brayack Tetra Tech Twin Oaks I, Suite 309 5700 Lake Wright Drive Norfolk, VA 23502	<b>BILL TO:</b>	Accounts Payable/Pittsburg Tetra Tech EC, Inc. Foster Plaza 7 661 Anderson Drive Pittsburgh, PA 15220-2745
<b>PHONE:</b>	(757) 461-3824	<b>P.O. #</b>	
<b>FAX:</b>	(757) 461-4148	<b>PROJECT #</b>	112GN9845 NWIRP BETHPAGE
<b>DATE RECEIVED:</b>	01/28/2008	<b>CONTACT:</b>	Bryanna Langley
<b>DATE COMPLETED:</b>	02/08/2008		

<b>FRACTION #</b>	<b>NAME</b>	<b>TEST</b>	<b>RECEIPT VAC./PRES.</b>	<b>FINAL PRESSURE</b>
10D	CCV	Modified TO-15	NA	NA
11A	LCS	Modified TO-15	NA	NA
11B	LCS	Modified TO-15	NA	NA
11C	LCS	Modified TO-15	NA	NA
11D	LCS	Modified TO-15	NA	NA

CERTIFIED BY:

DATE: 02/08/08

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**LABORATORY NARRATIVE  
Modified TO-15 Full Scan/SIM  
Tetra Tech  
Workorder# 0801481**



Five 6 Liter Summa Canister (100% Certified) samples were received on January 28, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<b>Requirement</b>	<b>TO-15</b>	<b>ATL Modifications</b>
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD  For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+ - 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%; flag and narrate outliers  For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

### Receiving Notes

There were no receiving discrepancies.

### Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (at the Reporting Limit) may be false positives.

#### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0801438A**

Work Order Summary

<b>CLIENT:</b>	Mr. David Brayack Tetra Tech Twin Oaks I, Suite 309 5700 Lake Wright Drive Norfolk, VA 23502	<b>BILL TO:</b>	Accounts Payable/Pittsburg Tetra Tech EC, Inc. Foster Plaza 7 661 Anderson Drive Pittsburgh, PA 15220-2745
<b>PHONE:</b>	(757) 461-3824	<b>P.O. #</b>	
<b>FAX:</b>	(757) 461-4148	<b>PROJECT #</b>	112GN9845 NWIRP BETHPAGE
<b>DATE RECEIVED:</b>	01/24/2008	<b>CONTACT:</b>	Bryanna Langley
<b>DATE COMPLETED:</b>	02/06/2008		

<b><u>FRACTION #</u></b>	<b><u>NAME</u></b>	<b><u>TEST</u></b>	<b><u>RECEIPT VAC./PRES.</u></b>	<b><u>FINAL PRESSURE</u></b>
01A	BPSI-FB1001-00	Modified TO-15	4.5 "Hg	5 psi
01B	BPSI-FB1001-00	Modified TO-15	4.5 "Hg	5 psi
02A	BPSI-SG1004-05.5	Modified TO-15	1.5 "Hg	5 psi
02B	BPSI-SG1004-05.5	Modified TO-15	1.5 "Hg	5 psi
03A	BPSI-SG1004-22	Modified TO-15	0.5 "Hg	5 psi
03B	BPSI-SG1004-22	Modified TO-15	0.5 "Hg	5 psi
04A	BPSI-SG1003-05.5	Modified TO-15	0.5 "Hg	5 psi
04B	BPSI-SG1003-05.5	Modified TO-15	0.5 "Hg	5 psi
05A	BPSI-SG1003-20	Modified TO-15	0.5 "Hg	5 psi
05B	BPSI-SG1003-20	Modified TO-15	0.5 "Hg	5 psi
08A	BPSI-FB1002-00	Modified TO-15	3.0 "Hg	5 psi
08B	BPSI-FB1002-00	Modified TO-15	3.0 "Hg	5 psi
09A	BPSI-SG1003-45	Modified TO-15	1.5 "Hg	5 psi
09B	BPSI-SG1003-45	Modified TO-15	1.5 "Hg	5 psi
10A	Lab Blank	Modified TO-15	NA	NA
10B	Lab Blank	Modified TO-15	NA	NA
10C	Lab Blank	Modified TO-15	NA	NA

Continued on next page



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0801438A**

Work Order Summary

<b>CLIENT:</b>	Mr. David Brayack Tetra Tech Twin Oaks I, Suite 309 5700 Lake Wright Drive Norfolk, VA 23502	<b>BILL TO:</b>	Accounts Payable/Pittsburg Tetra Tech EC, Inc. Foster Plaza 7 661 Anderson Drive Pittsburgh, PA 15220-2745
<b>PHONE:</b>	(757) 461-3824	<b>P.O. #</b>	
<b>FAX:</b>	(757) 461-4148	<b>PROJECT #</b>	112GN9845 NWIRP BETHPAGE
<b>DATE RECEIVED:</b>	01/24/2008	<b>CONTACT:</b>	Bryanna Langley
<b>DATE COMPLETED:</b>	02/06/2008		

<b>FRACTION #</b>	<b>NAME</b>	<b>TEST</b>	<b>RECEIPT</b>	<b>FINAL</b>
			<u>VAC./PRES.</u>	<u>PRESSURE</u>
10D	Lab Blank	Modified TO-15	NA	NA
11A	CCV	Modified TO-15	NA	NA
11B	CCV	Modified TO-15	NA	NA
11C	CCV	Modified TO-15	NA	NA
11D	CCV	Modified TO-15	NA	NA
12A	LCS	Modified TO-15	NA	NA
12B	LCS	Modified TO-15	NA	NA
12C	LCS	Modified TO-15	NA	NA
12D	LCS	Modified TO-15	NA	NA

CERTIFIED BY:

DATE: 02/06/08

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**LABORATORY NARRATIVE  
Modified TO-15 Full Scan/SIM  
Tetra Tech  
Workorder# 0801438A**



Seven 6 Liter Summa Canister (100% Certified) samples were received on January 24, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<b>Requirement</b>	<b>TO-15</b>	<b>ATL Modifications</b>
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD  For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+ - 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%; flag and narrate outliers  For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

#### Receiving Notes

There were no receiving discrepancies.

#### Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.



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All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (at the Reporting Limit) may be false positives.

#### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



---

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0801530**

Work Order Summary

<b>CLIENT:</b>	Mr. David Brayack Tetra Tech Twin Oaks I, Suite 309 5700 Lake Wright Drive Norfolk, VA 23502	<b>BILL TO:</b>	Accounts Payable/Pittsburg Tetra Tech EC, Inc. Foster Plaza 7 661 Anderson Drive Pittsburgh, PA 15220-2745
<b>PHONE:</b>	(757) 461-3824	<b>P.O. #</b>	
<b>FAX:</b>	(757) 461-4148	<b>PROJECT #</b>	112GN9845 NWIRP BETHPAGE
<b>DATE RECEIVED:</b>	01/30/2008	<b>CONTACT:</b>	Bryanna Langley
<b>DATE COMPLETED:</b>	02/12/2008		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>	<u>FINAL PRESSURE</u>
01A	BPSI-FB1005-00	Modified TO-15	2.0 "Hg	5 psi
01B	BPSI-FB1005-00	Modified TO-15	2.0 "Hg	5 psi
02A	BPSI-SG1005-45	Modified TO-15	2.5 "Hg	5 psi
02B	BPSI-SG1005-45	Modified TO-15	2.5 "Hg	5 psi
03A	BPSI-SG1005-20	Modified TO-15	2.0 "Hg	5 psi
03B	BPSI-SG1005-20	Modified TO-15	2.0 "Hg	5 psi
04A	BPSI-SG1005-08	Modified TO-15	1.0 "Hg	5 psi
04B	BPSI-SG1005-08	Modified TO-15	1.0 "Hg	5 psi
05A	BPSI-SG1006-45	Modified TO-15	1.0 "Hg	5 psi
05B	BPSI-SG1006-45	Modified TO-15	1.0 "Hg	5 psi
06A	BPSI-SG1006-20	Modified TO-15	0.0 "Hg	5 psi
06B	BPSI-SG1006-20	Modified TO-15	0.0 "Hg	5 psi
07A	BPSI-FB1006-00	Modified TO-15	23.5 "Hg	5 psi
07B	BPSI-FB1006-00	Modified TO-15	23.5 "Hg	5 psi
08A	BPSI-SG1006-07	Modified TO-15	1.0 "Hg	5 psi
08B	BPSI-SG1006-07	Modified TO-15	1.0 "Hg	5 psi
09A	Lab Blank	Modified TO-15	NA	NA

Continued on next page



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## WORK ORDER #: 0801530

### Work Order Summary

<b>CLIENT:</b>	Mr. David Brayack Tetra Tech Twin Oaks I, Suite 309 5700 Lake Wright Drive Norfolk, VA 23502	<b>BILL TO:</b>	Accounts Payable/Pittsburg Tetra Tech EC, Inc. Foster Plaza 7 661 Anderson Drive Pittsburgh, PA 15220-2745
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<b>FAX:</b>	(757) 461-4148	<b>PROJECT #</b>	112GN9845 NWIRP BETHPAGE
<b>DATE RECEIVED:</b>	01/30/2008	<b>CONTACT:</b>	Bryanna Langley
<b>DATE COMPLETED:</b>	02/12/2008		

<b><u>FRACTION #</u></b>	<b><u>NAME</u></b>	<b><u>TEST</u></b>	<b><u>RECEIPT VAC./PRES.</u></b>	<b><u>FINAL PRESSURE</u></b>
09B	Lab Blank	Modified TO-15	NA	NA
09C	Lab Blank	Modified TO-15	NA	NA
09D	Lab Blank	Modified TO-15	NA	NA
10A	CCV	Modified TO-15	NA	NA
10B	CCV	Modified TO-15	NA	NA
10C	CCV	Modified TO-15	NA	NA
10D	CCV	Modified TO-15	NA	NA
11A	LCS	Modified TO-15	NA	NA
11B	LCS	Modified TO-15	NA	NA
11C	LCS	Modified TO-15	NA	NA
11D	LCS	Modified TO-15	NA	NA

CERTIFIED BY:

DATE: 02/12/08

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**LABORATORY NARRATIVE  
Modified TO-15 Full Scan/SIM  
Tetra Tech  
Workorder# 0801530**



Eight 6 Liter Summa Canister (100% Certified) samples were received on January 30, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<b>Requirement</b>	<b>TO-15</b>	<b>ATL Modifications</b>
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD  For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+ - 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%; flag and narrate outliers  For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

### Receiving Notes

There were no receiving discrepancies.

### Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.



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As per project specific client request, the laboratory has reported estimated values for target compounds that are detected below the Reporting Limit but greater than the Method Detection Limit. Concentrations below the level at which the canister was certified (at the Reporting Limit) may be false positives.

#### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



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**WORK ORDER #: 0801438C**

**Work Order Summary**

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<b>PHONE:</b>	(757) 461-3824	<b>P.O. #</b>	
<b>FAX:</b>	(757) 461-4148	<b>PROJECT #</b>	112GN9845 NWIRP BETHPAGE
<b>DATE RECEIVED:</b>	01/24/2008	<b>CONTACT:</b>	Bryanna Langley
<b>DATE COMPLETED:</b>	02/06/2008		

<b>FRACTION #</b>	<b>NAME</b>	<b>TEST</b>	<b>RECEIPT VAC./PRES.</b>	<b>FINAL PRESSURE</b>
06A	SVPM125-25	Modified TO-15	0.5 "Hg	5 psi
07A	SVPM12-50	Modified TO-15	0.0 "Hg	5 psi
10A	SVPM115-24	Modified TO-15	0.5 "Hg	5 psi
12A	BPS1-SG1002-08	Modified TO-15	1.0 "Hg	5 psi
12AA	BPS1-SG1002-08 Lab Duplicate	Modified TO-15	1.0 "Hg	5 psi
13A	FD-012308	Modified TO-15	0.5 "Hg	5 psi
14A	Lab Blank	Modified TO-15	NA	NA
15A	CCV	Modified TO-15	NA	NA
16A	LCS	Modified TO-15	NA	NA

CERTIFIED BY:

DATE: 02/07/08

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

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**LABORATORY NARRATIVE**  
**Modified TO-15**  
**Tetra Tech**  
**Workorder# 0801438C**



Five 6 Liter Summa Canister (100% Certified) samples were received on January 24, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<b>Requirement</b>	<b>TO-15</b>	<b>ATL Modifications</b>
Daily CCV	+/- 30% Difference	</= 30% Difference with two allowed out up to </=40%;; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

### Receiving Notes

There were no receiving discrepancies.

### Analytical Notes

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

### Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no



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performed).

- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0801438B**

**Work Order Summary**

<b>CLIENT:</b>	Mr. David Brayack Tetra Tech Twin Oaks I, Suite 309 5700 Lake Wright Drive Norfolk, VA 23502	<b>BILL TO:</b>	Accounts Payable/Pittsburg Tetra Tech EC, Inc. Foster Plaza 7 661 Anderson Drive Pittsburgh, PA 15220-2745
<b>PHONE:</b>	(757) 461-3824	<b>P.O. #</b>	
<b>FAX:</b>	(757) 461-4148	<b>PROJECT #</b>	112GN9845 NWIRP BETHPAGE
<b>DATE RECEIVED:</b>	01/24/2008	<b>CONTACT:</b>	Bryanna Langley
<b>DATE COMPLETED:</b>	02/06/2008		

<b>FRACTION #</b>	<b>NAME</b>	<b>TEST</b>	<b>RECEIPT VAC./PRES.</b>	<b>FINAL PRESSURE</b>
11A	SVPM11-49	Modified TO-15	0.5 "Hg	5 psi
11B	SVPM11-49	Modified TO-15	0.5 "Hg	5 psi
12A	Lab Blank	Modified TO-15	NA	NA
12B	Lab Blank	Modified TO-15	NA	NA
13A	CCV	Modified TO-15	NA	NA
13B	CCV	Modified TO-15	NA	NA
14A	LCS	Modified TO-15	NA	NA
14B	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Sonia D. Freeman

DATE: 02/06/08

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004

NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**LABORATORY NARRATIVE  
Modified TO-15 Full Scan/SIM  
Tetra Tech  
Workorder# 0801438B**

**LUMEN**  
*DATA VALIDATED*

Two 6 Liter Summa Canister (100% Certified) samples were received on January 24, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<b>Requirement</b>	<b>TO-15</b>	<b>ATL Modifications</b>
ICAL %RSD acceptance criteria	<=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD  For SIM: Project specific; default criteria is <=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%; flag and narrate outliers  For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

**Receiving Notes**

The Chain of Custody (COC) information for sample SVPML11-49 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.



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### Analytical Notes

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (at the Reporting Limit) may be false positives.

As per project specific client request, the laboratory has reported estimated values for target compounds that are detected below the Reporting Limit but greater than the Method Detection Limit. Concentrations below the level at which the canister was certified (at the Reporting Limit) may be false positives.

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

### Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1001-07

Lab ID#: 0801481B-04A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5020709	Date of Collection: 1/24/08		
Dil. Factor:	22.3	Date of Analysis: 2/7/08 02:08 PM		
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	11	Not Detected	55	Not Detected
Chloromethane	45	Not Detected	92	Not Detected
Vinyl Chloride	11	Not Detected	28	Not Detected
Bromomethane	11	Not Detected	43	Not Detected
Chloroethane	11	Not Detected	29	Not Detected
Freon 11	11	Not Detected	63	Not Detected
Freon 113	11	2.5 J	85	19 J
1,1-Dichloroethene	11	120	44	490
Acetone	45	160	100	370
Carbon Disulfide	11	Not Detected	35	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Methyl tert-butyl ether	11	Not Detected	40	Not Detected
trans-1,2-Dichloroethene	11	Not Detected	44	Not Detected
1,1-Dichloroethane	11	31	45	130
2-Butanone (Methyl Ethyl Ketone)	11	12	33	35
cis-1,2-Dichloroethene	11	6.1 J	44	24 J
Chloroform	11	Not Detected	54	Not Detected
1,1,1-Trichloroethane	11	2900	61	16000
Carbon Tetrachloride	11	Not Detected	70	Not Detected
Benzene	11	Not Detected	36	Not Detected
1,2-Dichloroethane	11	Not Detected	45	Not Detected
Trichloroethene	11	3500	60	19000
1,2-Dichloropropane	11	Not Detected	52	Not Detected
Bromodichloromethane	11	Not Detected	75	Not Detected
cis-1,3-Dichloropropene	11	Not Detected	51	Not Detected
4-Methyl-2-pentanone	11	Not Detected	46	Not Detected
Toluene	11	3.5 J	42	13 J
trans-1,3-Dichloropropene	11	Not Detected	51	Not Detected
1,1,2-Trichloroethane	11	Not Detected	61	Not Detected
Tetrachloroethene	11	25	76	170
Dibromochloromethane	11	Not Detected	95	Not Detected
1,2-Dibromoethane (EDB)	11	Not Detected	86	Not Detected
Chlorobenzene	11	Not Detected	51	Not Detected
Ethyl Benzene	11	Not Detected	48	Not Detected
m,p-Xylene	11	Not Detected	48	Not Detected
o-Xylene	11	Not Detected	48	Not Detected
Styrene	11	Not Detected	47	Not Detected
Bromoform	11	Not Detected	120	Not Detected
1,1,2,2-Tetrachloroethane	11	Not Detected	76	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1001-07**

**Lab ID#: 0801481B-04A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	5020709	Date of Collection:	1/24/08	
Dil. Factor:	22.3	Date of Analysis:	2/7/08 02:08 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,3-Dichlorobenzene	11	Not Detected	67	Not Detected
1,4-Dichlorobenzene	11	Not Detected	67	Not Detected
1,2-Dichlorobenzene	11	Not Detected	67	Not Detected
1,2,4-Trichlorobenzene	45	Not Detected	330	Not Detected

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	98	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1001-20

Lab ID#: 0801481B-05A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5020710	Date of Collection: 1/24/08		
Dil. Factor:	268	Date of Analysis: 2/7/08 02:36 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	130	Not Detected	660	Not Detected
Chloromethane	540	Not Detected	1100	Not Detected
Vinyl Chloride	130	Not Detected	340	Not Detected
Bromomethane	130	Not Detected	520	Not Detected
Chloroethane	130	Not Detected	350	Not Detected
Freon 11	130	Not Detected	750	Not Detected
Freon 113	130	Not Detected	1000	Not Detected
1,1-Dichloroethene	130	590	530	2400
Acetone	540	Not Detected	1300	Not Detected
Carbon Disulfide	130	Not Detected	420	Not Detected
Methylene Chloride	130	Not Detected	460	Not Detected
Methyl tert-butyl ether	130	Not Detected	480	Not Detected
trans-1,2-Dichloroethene	130	Not Detected	530	Not Detected
1,1-Dichloroethane	130	420	540	1700
2-Butanone (Methyl Ethyl Ketone)	130	Not Detected	400	Not Detected
cis-1,2-Dichloroethene	130	140	530	560
Chloroform	130	Not Detected	650	Not Detected
1,1,1-Trichloroethane	130	16000	730	90000
Carbon Tetrachloride	130	Not Detected	840	Not Detected
Benzene	130	Not Detected	430	Not Detected
1,2-Dichloroethane	130	Not Detected	540	Not Detected
Trichloroethene	130	33000	720	180000
1,2-Dichloropropane	130	Not Detected	620	Not Detected
Bromodichloromethane	130	Not Detected	900	Not Detected
cis-1,3-Dichloropropene	130	Not Detected	610	Not Detected
4-Methyl-2-pentanone	130	Not Detected	550	Not Detected
Toluene	130	Not Detected	500	Not Detected
trans-1,3-Dichloropropene	130	Not Detected	610	Not Detected
1,1,2-Trichloroethane	130	Not Detected	730	Not Detected
Tetrachloroethene	130	170	910	1200
Dibromochloromethane	130	Not Detected	1100	Not Detected
1,2-Dibromoethane (EDB)	130	Not Detected	1000	Not Detected
Chlorobenzene	130	Not Detected	620	Not Detected
Ethyl Benzene	130	Not Detected	580	Not Detected
m,p-Xylene	130	Not Detected	580	Not Detected
o-Xylene	130	Not Detected	580	Not Detected
Styrene	130	Not Detected	570	Not Detected
Bromoform	130	Not Detected	1400	Not Detected
1,1,2,2-Tetrachloroethane	130	Not Detected	920	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1001-20

Lab ID#: 0801481B-05A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	5020710	Date of Collection:	1/24/08	
Dil. Factor:	268	Date of Analysis:	2/7/08 02:36 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,3-Dichlorobenzene	130	Not Detected	800	Not Detected
1,4-Dichlorobenzene	130	Not Detected	800	Not Detected
1,2-Dichlorobenzene	130	Not Detected	800	Not Detected
1,2,4-Trichlorobenzene	540	Not Detected	4000	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1001-40

Lab ID#: 0801481B-07A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5020711	Date of Collection: 1/25/08		
Dil. Factor:	1.41	Date of Analysis: 2/7/08 03:08 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.70	0.83	3.5	4.1
Chloromethane	2.8	Not Detected	5.8	Not Detected
Vinyl Chloride	0.70	Not Detected	1.8	Not Detected
Bromomethane	0.70	Not Detected	2.7	Not Detected
Chloroethane	0.70	Not Detected	1.9	Not Detected
Freon 11	0.70	0.42 J	4.0	2.3 J
Freon 113	0.70	0.27 J	5.4	2.1 J
1,1-Dichloroethene	0.70	3.7	2.8	15
Acetone	2.8	6.1	6.7	14
Carbon Disulfide	0.70	Not Detected	2.2	Not Detected
Methylene Chloride	0.70	44	2.4	150
Methyl tert-butyl ether	0.70	Not Detected	2.5	Not Detected
trans-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.70	3.3	2.8	14
2-Butanone (Methyl Ethyl Ketone)	0.70	Not Detected	2.1	Not Detected
cis-1,2-Dichloroethene	0.70	1.1	2.8	4.4
Chloroform	0.70	0.11 J	3.4	0.52 J
1,1,1-Trichloroethane	0.70	160	3.8	890
Carbon Tetrachloride	0.70	Not Detected	4.4	Not Detected
Benzene	0.70	0.36 J	2.2	1.1 J
1,2-Dichloroethane	0.70	Not Detected	2.8	Not Detected
Trichloroethene	0.70	260	3.8	1400
1,2-Dichloropropane	0.70	Not Detected	3.2	Not Detected
Bromodichloromethane	0.70	Not Detected	4.7	Not Detected
cis-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected
4-Methyl-2-pentanone	0.70	Not Detected	2.9	Not Detected
Toluene	0.70	0.56 J	2.6	2.1 J
trans-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected
1,1,2-Trichloroethane	0.70	Not Detected	3.8	Not Detected
Tetrachloroethene	0.70	0.87	4.8	5.9
Dibromochloromethane	0.70	Not Detected	6.0	Not Detected
1,2-Dibromoethane (EDB)	0.70	Not Detected	5.4	Not Detected
Chlorobenzene	0.70	Not Detected	3.2	Not Detected
Ethyl Benzene	0.70	Not Detected	3.1	Not Detected
m,p-Xylene	0.70	Not Detected	3.1	Not Detected
o-Xylene	0.70	Not Detected	3.1	Not Detected
Styrene	0.70	Not Detected	3.0	Not Detected
Bromoform	0.70	Not Detected	7.3	Not Detected
1,1,2,2-Tetrachloroethane	0.70	Not Detected	4.8	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1001-40**

**Lab ID#: 0801481B-07A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	5020711	Date of Collection:	1/25/08	
Dil. Factor:	1.41	Date of Analysis:	2/7/08 03:08 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,3-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,4-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,2,4-Trichlorobenzene	2.8	Not Detected	21	Not Detected

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	.97	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPS1-SG1002-08

Lab ID#: 0801438C-12A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8013119	Date of Collection:	1/23/08	
Dil. Factor:	6.95	Date of Analysis:	1/31/08 09:39 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	3.5	Not Detected	17	Not Detected
Chloromethane	14	Not Detected	29	Not Detected
Vinyl Chloride	3.5	Not Detected	8.9	Not Detected
Bromomethane	3.5	Not Detected	13	Not Detected
Chloroethane	3.5	Not Detected	9.2	Not Detected
Freon 11	3.5	0.78 J	20	4.4 J
Freon 113	3.5	280	27	2200
1,1-Dichloroethene	3.5	Not Detected	14	Not Detected
Acetone	14	27	33	64
Carbon Disulfide	3.5	1.1 J	11	3.5 J
Methylene Chloride	3.5	Not Detected	12	Not Detected
Methyl tert-butyl ether	3.5	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	3.5	5.6	14	22
1,1-Dichloroethane	3.5	3.6	14	15
2-Butanone (Methyl Ethyl Ketone)	3.5	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	3.5	39	14	160
Chloroform	3.5	1.1 J	17	5.6 J
1,1,1-Trichloroethane	3.5	140	19	740
Carbon Tetrachloride	3.5	Not Detected	22	Not Detected
Benzene	3.5	1.6 J	11	5.1 J
1,2-Dichloroethane	3.5	Not Detected	14	Not Detected
Trichloroethene	3.5	620	19	3300
1,2-Dichloropropane	3.5	Not Detected	16	Not Detected
Bromodichloromethane	-	3.5	Not Detected	23
cis-1,3-Dichloropropene	3.5	Not Detected	16	Not Detected
4-Methyl-2-pentanone	3.5	Not Detected	14	Not Detected
Toluene	3.5	Not Detected	13	Not Detected
trans-1,3-Dichloropropene	3.5	Not Detected	16	Not Detected
1,1,2-Trichloroethane	3.5	Not Detected	19	Not Detected
Tetrachloroethene	3.5	250	24	1700
Dibromochloromethane	3.5	Not Detected	30	Not Detected
1,2-Dibromoethane (EDB)	3.5	Not Detected	27	Not Detected
Chlorobenzene	3.5	Not Detected	16	Not Detected
Ethyl Benzene	3.5	Not Detected	15	Not Detected
m,p-Xylene	3.5	Not Detected	15	Not Detected
o-Xylene	3.5	Not Detected	15	Not Detected
Styrene	3.5	Not Detected	15	Not Detected
Bromoform	3.5	Not Detected	36	Not Detected
1,1,2,2-Tetrachloroethane	3.5	Not Detected	24	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPS1-SG1002-08

Lab ID#: 0801438C-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8013119	Date of Collection:	1/23/08	
Dil. Factor:	6.95	Date of Analysis:	1/31/08 09:39 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,3-Dichlorobenzene	3.5	Not Detected	21	Not Detected
1,4-Dichlorobenzene	3.5	Not Detected	21	Not Detected
1,2-Dichlorobenzene	3.5	Not Detected	21	Not Detected
1,2,4-Trichlorobenzene	14	Not Detected U J	100	Not Detected U J

J = Estimated value.

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	119	70-130
4-Bromofluorobenzene	102	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPS1-SG1002-08 Lab Duplicate

Lab ID#: 0801438C-12AA

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8013114	Date of Collection:	1/23/08	
Dil. Factor:	11.1	Date of Analysis:	1/31/08 06:31 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	5.6	Not Detected	27	Not Detected
Chloromethane	22	5.4 J	46	11 J
Vinyl Chloride	5.6	Not Detected	14	Not Detected
Bromomethane	5.6	Not Detected	22	Not Detected
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	5.6	Not Detected	31	Not Detected
Freon 113	5.6	280	42	2100
1,1-Dichloroethene	5.6	3.2 J	22	13 J
Acetone	22	24	53	56
Carbon Disulfide	5.6	1.5 J	17	4.6 J
Methylene Chloride	5.6	Not Detected	19	Not Detected
Methyl tert-butyl ether	5.6	Not Detected	20	Not Detected
trans-1,2-Dichloroethene	5.6	5.8	22	23
1,1-Dichloroethane	5.6	2.9 J	22	12 J
2-Butanone (Methyl Ethyl Ketone)	5.6	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	5.6	37	22	150
Chloroform	5.6	Not Detected	27	Not Detected
1,1,1-Trichloroethane	5.6	140	30	740
Carbon Tetrachloride	5.6	Not Detected	35	Not Detected
Benzene	5.6	Not Detected	18	Not Detected
1,2-Dichloroethane	5.6	Not Detected	22	Not Detected
Trichloroethene	5.6	650	30	3500
1,2-Dichloropropane	5.6	Not Detected	26	Not Detected
Bromodichloromethane	5.6	Not Detected	37	Not Detected
cis-1,3-Dichloropropene	5.6	Not Detected	25	Not Detected
4-Methyl-2-pentanone	5.6	Not Detected	23	Not Detected
Toluene	5.6	Not Detected	21	Not Detected
trans-1,3-Dichloropropene	5.6	Not Detected	25	Not Detected
1,1,2-Trichloroethane	5.6	Not Detected	30	Not Detected
Tetrachloroethene	5.6	250	38	1700
Dibromochloromethane	5.6	Not Detected	47	Not Detected
1,2-Dibromoethane (EDB)	5.6	Not Detected	43	Not Detected
Chlorobenzene	5.6	Not Detected	26	Not Detected
Ethyl Benzene	5.6	Not Detected	24	Not Detected
m,p-Xylene	5.6	Not Detected	24	Not Detected
o-Xylene	5.6	Not Detected	24	Not Detected
Styrene	5.6	Not Detected	24	Not Detected
Bromoform	5.6	Not Detected	57	Not Detected
1,1,2,2-Tetrachloroethane	5.6	Not Detected	38	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPS1-SG1002-08 Lab Duplicate**

**Lab ID#: 0801438C-12AA**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8013114	Date of Collection:	1/23/08	
Dil. Factor:	11.1	Date of Analysis:	1/31/08 06:31 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,3-Dichlorobenzene	5.6	Not Detected	33	Not Detected
1,4-Dichlorobenzene	5.6	Not Detected	33	Not Detected
1,2-Dichlorobenzene	5.6	Not Detected	33	Not Detected
1,2,4-Trichlorobenzene	22	Not Detected U J	160	Not Detected U J

J = Estimated value.

UJ = Non-detected compound associated with low bias in the CCV

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	96	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: FD-012308

Lab ID#: 0801438C-13A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8013120	Date of Collection:	1/23/08	
Dil. Factor:	6.80	Date of Analysis:	1/31/08 10:15 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	3.4	Not Detected	17	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	3.4	Not Detected	8.7	Not Detected
Bromomethane	3.4	Not Detected	13	Not Detected
Chloroethane	3.4	Not Detected	9.0	Not Detected
Freon 11	3.4	0.65 J	19	3.6 J
Freon 113	3.4	370	26	2900
1,1-Dichloroethene	3.4	Not Detected	13	Not Detected
Acetone	14	30	32	72
Carbon Disulfide	3.4	0.88 J	10	2.7 J
Methylene Chloride	3.4	Not Detected	12	Not Detected
Methyl tert-butyl ether	3.4	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	3.4	6.3	13	25
1,1-Dichloroethane	3.4	3.4	14	14
2-Butanone (Methyl Ethyl Ketone)	3.4	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	3.4	49	13	200
Chloroform	3.4	1.3 J	17	6.5 J
1,1,1-Trichloroethane	3.4	180	18	970
Carbon Tetrachloride	3.4	Not Detected	21	Not Detected
Benzene	3.4	1.7 J	11	5.5 J
1,2-Dichloroethane	3.4	Not Detected	14	Not Detected
Trichloroethene	3.4	860	18	4600
1,2-Dichloropropane	3.4	Not Detected	16	Not Detected
Bromodichloromethane	3.4	Not Detected	23	Not Detected
cis-1,3-Dichloropropene	3.4	Not Detected	15	Not Detected
4-Methyl-2-pentanone	3.4	Not Detected	14	Not Detected
Toluene	3.4	2.2 J	13	8.2 J
trans-1,3-Dichloropropene	3.4	Not Detected	15	Not Detected
1,1,2-Trichloroethane	3.4	Not Detected	18	Not Detected
Tetrachloroethene	3.4	320	23	2100
Dibromochloromethane	3.4	Not Detected	29	Not Detected
1,2-Dibromoethane (EDB)	3.4	Not Detected	26	Not Detected
Chlorobenzene	3.4	Not Detected	16	Not Detected
Ethyl Benzene	3.4	Not Detected	15	Not Detected
m,p-Xylene	3.4	Not Detected	15	Not Detected
o-Xylene	3.4	Not Detected	15	Not Detected
Styrene	3.4	Not Detected	14	Not Detected
Bromoform	3.4	Not Detected	35	Not Detected
1,1,2,2-Tetrachloroethane	3.4	Not Detected	23	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: FD-012308

Lab ID#: 0801438C-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8013120	Date of Collection:	1/23/08	
Dil. Factor:	6.80	Date of Analysis:	1/31/08 10:15 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,3-Dichlorobenzene	3.4	Not Detected	20	Not Detected
1,4-Dichlorobenzene	3.4	Not Detected	20	Not Detected
1,2-Dichlorobenzene	3.4	Not Detected	20	Not Detected
1,2,4-Trichlorobenzene	14	Not Detected U J	100	Not Detected U J

J = Estimated value.

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	95	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1002-20

Lab ID#: 0801481-02A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s020513	Date of Collection: 1/24/08		
Dil. Factor:	48.7	Date of Analysis: 2/5/08 08:50 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	4.9	Not Detected	24	Not Detected
Chloromethane	4.9	Not Detected	10	Not Detected
Vinyl Chloride	4.9	Not Detected	12	Not Detected
Bromomethane	4.9	Not Detected	19	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	4.9	Not Detected	27	Not Detected
Freon 113	4.9	670	37	5100
1,1-Dichloroethene	4.9	5.0	19	20
Acetone	24	620	58	1500
Carbon Disulfide	24	1.3 J	76	3.9 J
Methylene Chloride	9.7	Not Detected	34	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	4.9	14	19	58
1,1-Dichloroethane	4.9	15	20	62
2-Butanone (Methyl Ethyl Ketone)	4.9	17	14	50
cis-1,2-Dichloroethene	4.9	200	19	800
Chloroform	4.9	1.5 J	24	7.3 J
1,1,1-Trichloroethane	4.9	350	26	1900
Carbon Tetrachloride	4.9	Not Detected	31	Not Detected
Benzene	4.9	10	16	33
1,2-Dichloroethane	4.9	Not Detected	20	Not Detected
1,2-Dichloropropane	4.9	Not Detected	22	Not Detected
Bromodichloromethane	4.9	Not Detected	33	Not Detected
cis-1,3-Dichloropropene	4.9	Not Detected	22	Not Detected
4-Methyl-2-pentanone	4.9	Not Detected	20	Not Detected
Toluene	4.9	8.3	18	31
trans-1,3-Dichloropropene	4.9	Not Detected	22	Not Detected
1,1,2-Trichloroethane	4.9	Not Detected	26	Not Detected
Tetrachloroethene	4.9	140	33	960
Dibromochloromethane	4.9	Not Detected	41	Not Detected
1,2-Dibromoethane (EDB)	4.9	Not Detected	37	Not Detected
Chlorobenzene	4.9	Not Detected	22	Not Detected
Ethyl Benzene	4.9	1.4 J	21	5.9 J
m,p-Xylene	4.9	2.1 J	21	9.1 J
o-Xylene	4.9	Not Detected	21	Not Detected
Styrene	4.9	Not Detected	21	Not Detected
Bromoform	4.9	Not Detected	50	Not Detected
1,1,2,2-Tetrachloroethane	4.9	Not Detected	33	Not Detected
1,3-Dichlorobenzene	4.9	Not Detected	29	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1002-20**

**Lab ID#: 0801481-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020513	Date of Collection:	1/24/08	
Dil. Factor:	48.7	Date of Analysis:	2/5/08 08:50 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	4.9	Not Detected	29	Not Detected
1,2-Dichlorobenzene	4.9	Not Detected	29	Not Detected
1,2,4-Trichlorobenzene	24	Not Detected	180	Not Detected

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	107	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1002-20

Lab ID#: 0801481-02B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020513sim	Date of Collection:	1/24/08	
Dil. Factor:	48.7	Date of Analysis:	2/5/08 08:50 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.97	820	5.2	4400
<b>Container Type: 6 Liter Summa Canister (100% Certified)</b>				
Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	104	70-130		
Toluene-d8	83	70-130		
4-Bromofluorobenzene	118	70-130		



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1002-45

Lab ID#: 0801481-03A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s020518	Date of Collection: 1/24/08		
Dil. Factor:	28.2	Date of Analysis: 2/6/08 01:25 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.8	Not Detected	14	Not Detected
Chloromethane	2.8	2.5 J	5.8	5.2 J
Vinyl Chloride	2.8	Not Detected	7.2	Not Detected
Bromomethane	2.8	Not Detected	11	Not Detected
Chloroethane	2.8	Not Detected	7.4	Not Detected
Freon 11	2.8	Not Detected	16	Not Detected
Freon 113	2.8	310	22	2400
1,1-Dichloroethene	2.8	1.7 J	11	6.6 J
Acetone	14	850	33	2000
Carbon Disulfide	14	1.9 J	44	6.0 J
Methylene Chloride	5.6	Not Detected	20	Not Detected
Methyl tert-butyl ether	2.8	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	2.8	2.6 J	11	10 J
1,1-Dichloroethane	2.8	4.1	11	16
2-Butanone (Methyl Ethyl Ketone)	2.8	78	8.3	230
cis-1,2-Dichloroethene	2.8	23	11	92
Chloroform	2.8	Not Detected	14	Not Detected
1,1,1-Trichloroethane	2.8	100	15	550
Carbon Tetrachloride	2.8	Not Detected	18	Not Detected
Benzene	2.8	18	9.0	56
1,2-Dichloroethane	2.8	Not Detected	11	Not Detected
1,2-Dichloropropane	2.8	Not Detected	13	Not Detected
Bromodichloromethane	2.8	Not Detected	19	Not Detected
cis-1,3-Dichloropropene	2.8	Not Detected	13	Not Detected
4-Methyl-2-pentanone	2.8	4.9 J	12	20 J
Toluene	2.8	17	11	66
trans-1,3-Dichloropropene	2.8	Not Detected	13	Not Detected
1,1,2-Trichloroethane	2.8	Not Detected	15	Not Detected
Tetrachloroethene	2.8	2.9	19	20
Dibromochloromethane	2.8	Not Detected	24	Not Detected
1,2-Dibromoethane (EDB)	2.8	Not Detected	22	Not Detected
Chlorobenzene	2.8	Not Detected	13	Not Detected
Ethyl Benzene	2.8	1.9 J	12	8.4 J
m,p-Xylene	2.8	4.7	12	20
o-Xylene	2.8	1.7 J	12	7.6 J
Styrene	2.8	Not Detected	12	Not Detected
Bromoform	2.8	Not Detected	29	Not Detected
1,1,2,2-Tetrachloroethane	2.8	Not Detected	19	Not Detected
1,3-Dichlorobenzene	2.8	Not Detected	17	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1002-45**

**Lab ID#: 0801481-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020518	Date of Collection:	1/24/08
Dil. Factor:	28.2	Date of Analysis:	2/6/08 01:25 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	2.8	Not Detected	17	Not Detected
1,2-Dichlorobenzene	2.8	Not Detected	17	Not Detected
1,2,4-Trichlorobenzene	14	Not Detected	100	Not Detected

J = Estimated value.

J = Estimated value due to bias in the CCV.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1002-45

Lab ID#: 0801481-03B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020518sim	Date of Collection:	1/24/08	
Dil. Factor:	28.2	Date of Analysis:	2/6/08 01:25 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.56	59	3.0	320

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	114	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1003-05.5

Lab ID#: 0801438A-04A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012820	Date of Collection: 1/22/08		
Dil. Factor:	1.36	Date of Analysis: 1/29/08 12:21 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.14	0.18	0.67	0.86
Chloromethane	0.14	Not Detected	0.28	Not Detected
Vinyl Chloride	0.14	Not Detected	0.35	Not Detected
Bromomethane	0.14	Not Detected	0.53	Not Detected
Chloroethane	0.14	Not Detected	0.36	Not Detected
Freon 11	0.14	0.33	0.76	1.8
Freon 113	0.14	100 E	1.0	790 E
1,1-Dichloroethene	0.14	0.24	0.54	0.94
Acetone	0.68	40	1.6	95
Carbon Disulfide	0.68	0.36 J	2.1	1.1 J
Methylene Chloride	0.27	0.061 J	0.94	0.21 J
Methyl tert-butyl ether	0.14	Not Detected	0.49	Not Detected
trans-1,2-Dichloroethene	0.14	0.055 J	0.54	0.22 J
1,1-Dichloroethane	0.14	0.29	0.55	1.2
2-Butanone (Methyl Ethyl Ketone)	0.14	3.4	0.40	10
cis-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Chloroform	0.14	0.24	0.66	1.2
1,1,1-Trichloroethane	0.14	81 E	0.74	440 E
Carbon Tetrachloride	0.14	Not Detected	0.86	Not Detected
Benzene	0.14	1.0	0.43	3.3
1,2-Dichloroethane	0.14	Not Detected	0.55	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.63	Not Detected
Bromodichloromethane	0.14	Not Detected	0.91	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.56	Not Detected
Toluene	0.14	6.7	0.51	25
trans-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Tetrachloroethene	0.14	79 E	0.92	540 E
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.0	Not Detected
Chlorobenzene	0.14	Not Detected	0.63	Not Detected
Ethyl Benzene	0.14	1.8	0.59	7.8
m,p-Xylene	0.14	6.2	0.59	27
o-Xylene	0.14	1.9	0.59	8.3
Styrene	0.14	0.22	0.58	0.92
Bromoform	0.14	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.93	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1003-05.5**

**Lab ID#: 0801438A-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012820	Date of Collection:	1/22/08	
Dil. Factor:	1.36	Date of Analysis:	1/29/08 12:21 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.14	0.25	0.82	1.5
1,2-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
1,2,4-Trichlorobenzene	0.68	Not Detected	5.0	Not Detected

E = Exceeds instrument calibration range.

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	121	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1003-05.5

Lab ID#: 0801438A-04B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012820sim	Date of Collection:	1/22/08	
Dil. Factor:	1.36	Date of Analysis:	1/29/08 12:21 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.027	20	0.15	110

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	122	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1003-20

Lab ID#: 0801438A-05A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012825	Date of Collection: 1/22/08		
Dil. Factor:	9.07	Date of Analysis: 1/29/08 07:34 AM		
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.91	Not Detected	4.5	Not Detected
Chloromethane	0.91	Not Detected	1.9	Not Detected
Vinyl Chloride	0.91	Not Detected	2.3	Not Detected
Bromomethane	0.91	Not Detected	3.5	Not Detected
Chloroethane	0.91	Not Detected	2.4	Not Detected
Freon 11	0.91	0.24 J	5.1	1.4 J
Freon 113	0.91	180	7.0	1400
1,1-Dichloroethene	0.91	1.5	3.6	5.8
Acetone	4.5	51	11	120
Carbon Disulfide	4.5	0.92 J	14	2.8 J
Methylene Chloride	1.8	Not Detected	6.3	Not Detected
Methyl tert-butyl ether	0.91	Not Detected	3.3	Not Detected
trans-1,2-Dichloroethene	0.91	0.77 J	3.6	3.0 J
1,1-Dichloroethane	0.91	4.7	3.7	19
2-Butanone (Methyl Ethyl Ketone)	0.91	3.9	2.7	12
cis-1,2-Dichloroethene	0.91	0.93	3.6	3.7
Chloroform	0.91	1.0	4.4	4.9
1,1,1-Trichloroethane	0.91	140	4.9	790
Carbon Tetrachloride	0.91	Not Detected	5.7	Not Detected
Benzene	0.91	1.9	2.9	6.2
1,2-Dichloroethane	0.91	Not Detected	3.7	Not Detected
1,2-Dichloropropane	0.91	Not Detected	4.2	Not Detected
Bromodichloromethane	0.91	Not Detected	6.1	Not Detected
cis-1,3-Dichloropropene	0.91	Not Detected	4.1	Not Detected
4-Methyl-2-pentanone	0.91	Not Detected	3.7	Not Detected
Toluene	0.91	11	3.4	41
trans-1,3-Dichloropropene	0.91	Not Detected	4.1	Not Detected
1,1,2-Trichloroethane	0.91	Not Detected	4.9	Not Detected
Tetrachloroethene	0.91	200	6.2	1300
Dibromochloromethane	0.91	Not Detected	7.7	Not Detected
1,2-Dibromoethane (EDB)	0.91	Not Detected	7.0	Not Detected
Chlorobenzene	0.91	Not Detected	4.2	Not Detected
Ethyl Benzene	0.91	2.7	3.9	12
m,p-Xylene	0.91	7.9	3.9	34
o-Xylene	0.91	2.5	3.9	11
Styrene	0.91	0.24 J	3.9	1.0 J
Bromoform	0.91	Not Detected	9.4	Not Detected
1,1,2,2-Tetrachloroethane	0.91	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	0.91	Not Detected	5.4	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1003-20**

**Lab ID#: 0801438A-05A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012825	Date of Collection:	1/22/08
Dil. Factor:	9.07	Date of Analysis:	1/29/08 07:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.91	Not Detected	5.4	Not Detected
1,2-Dichlorobenzene	0.91	Not Detected	5.4	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	34	Not Detected

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	124	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1003-20**

**Lab ID#: 0801438A-05B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012825sim	Date of Collection:	1/22/08	
Dil. Factor:	9.07	Date of Analysis:	1/29/08 07:34 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.18	110	0.97	590

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	123	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1003-45

Lab ID#: 0801438A-09A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012917	Date of Collection: 1/23/08		
Dil. Factor:	9.40	Date of Analysis: 1/29/08 10:33 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.94	0.57 J	4.6	2.8 J
Chloromethane	0.94	Not Detected	1.9	Not Detected
Vinyl Chloride	0.94	Not Detected	2.4	Not Detected
Bromomethane	0.94	Not Detected	3.6	Not Detected
Chloroethane	0.94	Not Detected	2.5	Not Detected
Freon 11	0.94	0.35 J	5.3	2.0 J
Freon 113	0.94	290	7.2	2200
1,1-Dichloroethene	0.94	2.2	3.7	8.8
Acetone	4.7	140	11	340
Carbon Disulfide	4.7	0.42 J	15	1.3 J
Methylene Chloride	1.9	0.32 J	6.5	1.1 J
Methyl tert-butyl ether	0.94	2.3	3.4	8.2
trans-1,2-Dichloroethene	0.94	1.4	3.7	5.6
1,1-Dichloroethane	0.94	23	3.8	95
2-Butanone (Methyl Ethyl Ketone)	0.94	7.4	2.8	22
cis-1,2-Dichloroethene	0.94	2.0	3.7	8.1
Chloroform	0.94	1.2	4.6	5.7
1,1,1-Trichloroethane	0.94	140	5.1	780
Carbon Tetrachloride	0.94	Not Detected	5.9	Not Detected
Benzene	0.94	3.0	3.0	9.4
1,2-Dichloroethane	0.94	Not Detected	3.8	Not Detected
1,2-Dichloropropane	0.94	Not Detected	4.3	Not Detected
Bromodichloromethane	0.94	Not Detected	6.3	Not Detected
cis-1,3-Dichloropropene	0.94	Not Detected	4.3	Not Detected
4-Methyl-2-pentanone	0.94	Not Detected	3.8	Not Detected
Toluene	0.94	6.4	3.5	24
trans-1,3-Dichloropropene	0.94	Not Detected	4.3	Not Detected
1,1,2-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Tetrachloroethene	0.94	37	6.4	250
Dibromochloromethane	0.94	Not Detected	8.0	Not Detected
1,2-Dibromoethane (EDB)	0.94	Not Detected	7.2	Not Detected
Chlorobenzene	0.94	Not Detected	4.3	Not Detected
Ethyl Benzene	0.94	1.0	4.1	4.4
m,p-Xylene	0.94	3.3	4.1	14
o-Xylene	0.94	0.54 J	4.1	2.4 J
Styrene	0.94	Not Detected	4.0	Not Detected
Bromoform	0.94	Not Detected	9.7	Not Detected
1,1,2,2-Tetrachloroethane	0.94	Not Detected	6.4	Not Detected
1,3-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1003-45**

**Lab ID#: 0801438A-09A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012917	Date of Collection:	1/23/08	
Dil. Factor:	9.40	Date of Analysis:	1/29/08 10:33 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	116	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1003-45**

**Lab ID#: 0801438A-09B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012917sim	Date of Collection:	1/23/08	
Dil. Factor:	9.40	Date of Analysis:	1/29/08 10:33 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.19	140	1.0	750
<b>Container Type: 6 Liter Summa Canister (100% Certified)</b>				
Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	100	70-130		
Toluene-d8	88	70-130		
4-Bromofluorobenzene	117	70-130		



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1004-05.5

Lab ID#: 0801438A-02A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012818	Date of Collection: 1/22/08		
Dil. Factor:	1.41	Date of Analysis: 1/28/08 10:16 PM		
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.14	0.34	0.70	1.6
Chloromethane	0.14	0.40	0.29	0.83
Vinyl Chloride	0.14	Not Detected	0.36	Not Detected
Bromomethane	0.14	Not Detected	0.55	Not Detected
Chloroethane	0.14	Not Detected	0.37	Not Detected
Freon 11	0.14	0.24	0.79	1.3
Freon 113	0.14	0.52	1.1	4.0
1,1-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Acetone	0.70	140 E	1.7	330 E
Carbon Disulfide	0.70	1.2	2.2	3.6
Methylene Chloride	0.28	Not Detected	0.98	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.51	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.57	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.14	5.4	0.42	16
cis-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Chloroform	0.14	Not Detected	0.69	Not Detected
1,1,1-Trichloroethane	0.14	0.71	0.77	3.9
Carbon Tetrachloride	0.14	0.11 J	0.89	0.67 J
Benzene	0.14	2.4	0.45	7.6
1,2-Dichloroethane	0.14	Not Detected	0.57	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.65	Not Detected
Bromodichloromethane	0.14	Not Detected	0.94	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.64	Not Detected
4-Methyl-2-pentanone	0.14	0.51	0.58	2.1
Toluene	0.14	8.6	0.53	32
trans-1,3-Dichloropropene	0.14	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.77	Not Detected
Tetrachloroethene	0.14	3.3	0.96	22
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	0.013 J	0.65	0.061 J
Ethyl Benzene	0.14	2.1	0.61	9.1
m,p-Xylene	0.14	7.4	0.61	32
o-Xylene	0.14	2.4	0.61	11
Styrene	0.14	0.18	0.60	0.76
Bromoform	0.14	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.97	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.85	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1004-05.5

Lab ID#: 0801438A-02A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012818	Date of Collection:	1/22/08	
Dil. Factor:	1.41	Date of Analysis:	1/28/08 10:16 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.14	0.13 J	0.85	0.77 J
1,2-Dichlorobenzene	0.14	Not Detected	0.85	Not Detected
1,2,4-Trichlorobenzene	0.70	Not Detected	5.2	Not Detected

E = Exceeds instrument calibration range.

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	126	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1004-05.5**

**Lab ID#: 0801438A-02B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012818sim	Date of Collection: 1/22/08		
Dil. Factor:	1.41	Date of Analysis: 1/28/08 10:16 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.028	0.98	0.15	5.2
<b>Container Type: 6 Liter Summa Canister (100% Certified)</b>				
Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	93	70-130		
Toluene-d8	92	70-130		
4-Bromofluorobenzene	123	70-130		



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1004-22

Lab ID#: 0801438A-03A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012819	Date of Collection:	1/22/08	
Dil. Factor:	1.36	Date of Analysis:	1/28/08 11:38 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.14	0.38	0.67	1.9
Chloromethane	0.14	0.55	0.28	1.1
Vinyl Chloride	0.14	Not Detected	0.35	Not Detected
Bromomethane	0.14	Not Detected	0.53	Not Detected
Chloroethane	0.14	Not Detected	0.36	Not Detected
Freon 11	0.14	0.27	0.76	1.5
Freon 113	0.14	0.090 J	1.0	0.69 J
1,1-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Acetone	0.68	97 E	1.6	230 E
Carbon Disulfide	0.68	0.049 J	2.1	0.15 J
Methylene Chloride	0.27	0.10 J	0.94	0.36 J
Methyl tert-butyl ether	0.14	Not Detected	0.49	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.14	0.30	0.40	0.87
cis-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Chloroform	0.14	Not Detected	0.66	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Carbon Tetrachloride	0.14	0.074 J	0.86	0.47 J
Benzene	0.14	0.43	0.43	1.4
1,2-Dichloroethane	0.14	Not Detected	0.55	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.63	Not Detected
Bromodichloromethane	0.14	Not Detected	0.91	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
4-Methyl-2-pentanone	0.14	0.026 J	0.56	0.11 J
Toluene	0.14	0.96	0.51	3.6
trans-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Tetrachloroethene	0.14	0.12 J	0.92	0.80 J
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.0	Not Detected
Chlorobenzene	0.14	Not Detected	0.63	Not Detected
Ethyl Benzene	0.14	0.12 J	0.59	0.53 J
m,p-Xylene	0.14	0.43	0.59	1.9
o-Xylene	0.14	0.14	0.59	0.63
Styrene	0.14	0.020 J	0.58	0.084 J
Bromoform	0.14	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.93	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1004-22**

**Lab ID#: 0801438A-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012819	Date of Collection:	1/22/08	
Dil. Factor:	1.36	Date of Analysis:	1/28/08 11:38 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.14	0.14	0.82	0.84
1,2-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
1,2,4-Trichlorobenzene	0.68	Not Detected	5.0	Not Detected

J = Estimated value.

E = Exceeds instrument calibration range.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	118	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1004-22**

**Lab ID#: 0801438A-03B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012819sim	Date of Collection:	1/22/08	
Dil. Factor:	1.36	Date of Analysis:	1/28/08 11:38 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.027	0.022 J	0.15	0.12 J

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	119	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1004-46

Lab ID#: 0801481-06A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s020519	Date of Collection: 1/25/08		
Dil. Factor:	8.67	Date of Analysis: 2/6/08 02:42 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.87	Not Detected	4.3	Not Detected
Chloromethane	0.87	Not Detected	1.8	Not Detected
Vinyl Chloride	0.87	Not Detected	2.2	Not Detected
Bromomethane	0.87	Not Detected	3.4	Not Detected
<u>Chloroethane</u>	0.87	Not Detected	2.3	Not Detected
Freon 11	0.87	0.30 J	4.9	1.7 J
Freon 113	0.87	78	6.6	600
1,1-Dichloroethene	0.87	1.0	3.4	4.1
Acetone	4.3	200	10	470
Carbon Disulfide	4.3	0.50 J	13	1.6 J
Methylene Chloride	1.7	0.62 J	6.0	2.2 J
Methyl tert-butyl ether	0.87	Not Detected	3.1	Not Detected
trans-1,2-Dichloroethene	0.87	5.6	3.4	22
1,1-Dichloroethane	0.87	110	3.5	460
2-Butanone (Methyl Ethyl Ketone)	0.87	5.2	2.6	15
cis-1,2-Dichloroethene	0.87	20	3.4	79
Chloroform	0.87	0.53 J	4.2	2.6 J
1,1,1-Trichloroethane	0.87	79	4.7	430
Carbon Tetrachloride	0.87	Not Detected	5.4	Not Detected
<u>Benzene</u>	0.87	1.6	2.8	5.2
1,2-Dichloroethane	0.87	Not Detected	3.5	Not Detected
1,2-Dichloropropane	0.87	Not Detected	4.0	Not Detected
Bromodichloromethane	0.87	Not Detected	5.8	Not Detected
cis-1,3-Dichloropropene	0.87	Not Detected	3.9	Not Detected
4-Methyl-2-pentanone	0.87	Not Detected	3.6	Not Detected
Toluene	0.87	4.0	3.3	15
trans-1,3-Dichloropropene	0.87	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.87	Not Detected	4.7	Not Detected
Tetrachloroethene	0.87	11	5.9	78
Dibromochloromethane	0.87	Not Detected	7.4	Not Detected
1,2-Dibromoethane (EDB)	0.87	Not Detected	6.7	Not Detected
Chlorobenzene	0.87	Not Detected	4.0	Not Detected
Ethyl Benzene	0.87	0.63 J	3.8	2.7 J
m,p-Xylene	0.87	1.7	3.8	7.4
<u>o-Xylene</u>	0.87	0.38 J	3.8	1.6 J
Styrene	0.87	Not Detected	3.7	Not Detected
Bromoform	0.87	Not Detected	9.0	Not Detected
1,1,2,2-Tetrachloroethane	0.87	Not Detected	6.0	Not Detected
1,3-Dichlorobenzene	0.87	Not Detected	5.2	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1004-46**

**Lab ID#: 0801481-06A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020519	Date of Collection:	1/25/08	
Dil. Factor:	8.67	Date of Analysis:	2/6/08 02:42 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.87	Not Detected	5.2	Not Detected
1,2-Dichlorobenzene	0.87	Not Detected	5.2	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	113	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1004-46**

**Lab ID#: 0801481-06B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020519sim	Date of Collection:	1/25/08	
Dil. Factor:	8.67	Date of Analysis:	2/6/08 02:42 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.17	150	0.93	820

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	124	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1005-08

Lab ID#: 0801530-04A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	z020719	Date of Collection:	1/28/08	
Dil. Factor:	1.39	Date of Analysis:	2/7/08 09:45 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.14	0.37	0.69	1.8
Chloromethane	0.14	0.38	0.29	0.79
Vinyl Chloride	0.14	Not Detected	0.36	Not Detected
Bromomethane	0.14	0.070 J	0.54	0.27 J
Chloroethane	0.14	Not Detected	0.37	Not Detected
Freon 11	0.14	0.23	0.78	1.3
Freon 113	0.14	0.31	1.1	2.4
1,1-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Acetone	0.70	97 E	1.6	230 E
Carbon Disulfide	0.70	0.79	2.2	2.5
Methylene Chloride	0.28	Not Detected	0.96	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.56	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.14	3.9	0.41	11
cis-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Chloroform	0.14	Not Detected	0.68	Not Detected
1,1,1-Trichloroethane	0.14	0.62	0.76	3.4
Carbon Tetrachloride	0.14	0.048 J	0.87	0.30 J
Benzene	0.14	2.2	0.44	7.1
1,2-Dichloroethane	0.14	Not Detected	0.56	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.64	Not Detected
Bromodichloromethane	0.14	Not Detected	0.93	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.57	Not Detected
Toluene	0.14	2.8	0.52	10
trans-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.76	Not Detected
Tetrachloroethene	0.14	2.2	0.94	15
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.64	Not Detected
Ethyl Benzene	0.14	0.43	0.60	1.8
m,p-Xylene	0.14	1.2	0.60	5.1
o-Xylene	0.14	0.28	0.60	1.2
Styrene	0.14	0.060 J	0.59	0.26 J
Bromoform	0.14	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.95	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1005-08**

**Lab ID#: 0801530-04A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020719	Date of Collection:	1/26/08
Dil. Factor:	1.39	Date of Analysis:	2/7/08 09:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m <sup>3</sup> )	Amount (uG/m <sup>3</sup> )
1,4-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
1,2,4-Trichlorobenzene	0.70	Not Detected	5.2	Not Detected

J = Estimated value.

E = Exceeds instrument calibration range.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1005-08**

**Lab ID#: 0801530-04B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020719sim	Date of Collection:	1/28/08	
Dil. Factor:	1.39	Date of Analysis:	2/7/08 09:45 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.028	0.27	0.15	1.5
<b>Container Type: 6 Liter Summa Canister (100% Certified)</b>				
Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	90	70-130		
Toluene-d8	103	70-130		
4-Bromofluorobenzene	97	70-130		



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1005-20

Lab ID#: 0801530-03A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	#020718	Date of Collection: 1/28/08		
Dil. Factor:	1.44	Date of Analysis: 2/7/08 09:13 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.14	0.32	0.71	1.6
Chloromethane	0.14	0.17	0.30	0.34
Vinyl Chloride	0.14	Not Detected	0.37	Not Detected
Bromomethane	0.14	Not Detected	0.56	Not Detected
Chloroethane	0.14	Not Detected	0.38	Not Detected
Freon 11	0.14	0.29	0.81	1.6
Freon 113	0.14	0.39	1.1	3.0
1,1-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Acetone	0.72	210 E	1.7	490 E
Carbon Disulfide	0.72	1.5	2.2	4.6
Methylene Chloride	0.29	Not Detected	1.0	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.52	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.58	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.14	18	0.42	53
cis-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Chloroform	0.14	0.35	0.70	1.7
1,1,1-Trichloroethane	0.14	2.1	0.78	11
Carbon Tetrachloride	0.14	Not Detected	0.91	Not Detected
Benzene	0.14	6.9	0.46	22
1,2-Dichloroethane	0.14	Not Detected	0.58	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.66	Not Detected
Bromodichloromethane	0.14	Not Detected	0.96	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
4-Methyl-2-pentanone	0.14	0.43	0.59	1.8
Toluene	0.14	9.9	0.54	37
trans-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.78	Not Detected
Tetrachloroethene	0.14	8.7	0.98	59
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.66	Not Detected
Ethyl Benzene	0.14	1.5	0.62	6.4
m,p-Xylene	0.14	2.8	0.62	12
o-Xylene	0.14	0.73	0.62	3.2
Styrene	0.14	0.21	0.61	0.89
Bromoform	0.14	Not Detected	1.5	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.99	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1005-20**

**Lab ID#: 0801530-03A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020718	Date of Collection:	1/28/08
Dil. Factor:	1.44	Date of Analysis:	2/7/08 09:13 PM
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)
1,4-Dichlorobenzene	0.14	Not Detected	0.86
1,2-Dichlorobenzene	0.14	Not Detected	0.86
1,2,4-Trichlorobenzene	0.72	Not Detected	5.3

E = Exceeds instrument calibration range.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	96	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1005-20

Lab ID#: 0801530-03B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020718sim	Date of Collection:	1/28/08	
Dil. Factor:	1.44	Date of Analysis:	2/7/08 09:13 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.029	3.0	0.15	16

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	94	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1005-45

Lab ID#: 0801530-02A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	z020717	Date of Collection: 1/26/08		
Dil. Factor:	1.46	Date of Analysis: 2/7/08 08:42 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.15	0.28	0.72	1.4
Chloromethane	0.15	0.089 J	0.30	0.18 J
Vinyl Chloride	0.15	Not Detected	0.37	Not Detected
Bromomethane	0.15	Not Detected	0.57	Not Detected
Chloroethane	0.15	Not Detected	0.38	Not Detected
Freon 11	0.15	0.41	0.82	2.3
Freon 113	0.15	2.0	1.1	15
1,1-Dichloroethene	0.15	Not Detected	0.58	Not Detected
Acetone	0.73	310 E	1.7	740 E
Carbon Disulfide	0.73	0.73	2.3	2.3
Methylene Chloride	0.29	Not Detected	1.0	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.53	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
1,1-Dichloroethane	0.15	Not Detected	0.59	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.15	12	0.43	37
cis-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
Chloroform	0.15	0.26	0.71	1.2
1,1,1-Trichloroethane	0.15	5.0	0.80	27
Carbon Tetrachloride	0.15	0.045 J	0.92	0.28 J
Benzene	0.15	2.6	0.47	8.4
1,2-Dichloroethane	0.15	Not Detected	0.59	Not Detected
1,2-Dichloropropane	0.15	Not Detected	0.67	Not Detected
Bromodichloromethane	0.15	Not Detected	0.98	Not Detected
cis-1,3-Dichloropropene	0.15	Not Detected	0.66	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected	0.60	Not Detected
Toluene	0.15	8.1	0.55	30
trans-1,3-Dichloropropene	0.15	Not Detected	0.66	Not Detected
1,1,2-Trichloroethane	0.15	Not Detected	0.80	Not Detected
Tetrachloroethene	0.15	8.8	0.99	60
Dibromochloromethane	0.15	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.15	Not Detected	1.1	Not Detected
Chlorobenzene	0.15	Not Detected	0.67	Not Detected
Ethyl Benzene	0.15	1.1	0.63	4.7
m,p-Xylene	0.15	3.1	0.63	13
o-Xylene	0.15	0.59	0.63	2.6
Styrene	0.15	0.11 J	0.62	0.46 J
Bromoform	0.15	Not Detected	1.5	Not Detected
1,1,2,2-Tetrachloroethane	0.15	Not Detected	1.0	Not Detected
1,3-Dichlorobenzene	0.15	Not Detected	0.88	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1005-45**

**Lab ID#: 0801530-02A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020717	Date of Collection:	1/28/08	
Dil. Factor:	1.46	Date of Analysis:	2/7/08 08:42 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.15	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.15	Not Detected	0.88	Not Detected
1,2,4-Trichlorobenzene	0.73	Not Detected	5.4	Not Detected

J = Estimated value.

E = Exceeds instrument calibration range.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	112	70-130
4-Bromofluorobenzene	102	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1005-45

Lab ID#: 0801530-02B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020717sim	Date of Collection:	1/28/08	
Dil. Factor:	1.46	Date of Analysis:	2/7/08 08:42 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.029	13	0.16	71

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	112	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1006-07

Lab ID#: 0801530-08A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	z020720 1.39	Date of Collection: 1/29/08 Date of Analysis: 2/7/08 10:36 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.14	0.33	0.69	1.6
Chloromethane	0.14	0.12 J	0.29	0.25 J
Vinyl Chloride	0.14	Not Detected	0.36	Not Detected
Bromomethane	0.14	Not Detected	0.54	Not Detected
Chloroethane	0.14	Not Detected	0.37	Not Detected
Freon 11	0.14	0.20	0.78	1.1
Freon 113	0.14	0.096 J	1.1	0.73 J
1,1-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Acetone	0.70	45	1.6	110
Carbon Disulfide	0.70	1.0	2.2	3.2
Methylene Chloride	0.28	Not Detected	0.96	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.56	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.14	8.8	0.41	26
cis-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Chloroform	0.14	0.49	0.68	2.4
1,1,1-Trichloroethane	0.14	0.065 J	0.76	0.35 J
Carbon Tetrachloride	0.14	6.6	0.87	41
Benzene	0.14	1.6	0.44	5.1
1,2-Dichloroethane	0.14	Not Detected	0.56	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.64	Not Detected
Bromodichloromethane	0.14	Not Detected	0.93	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
4-Methyl-2-pentanone	0.14	0.16	0.57	0.66
Toluene	0.14	2.3	0.52	8.8
trans-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.76	Not Detected
Tetrachloroethene	0.14	2.9	0.94	19
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.64	Not Detected
Ethyl Benzene	0.14	0.42	0.60	1.8
m,p-Xylene	0.14	1.1	0.60	5.0
o-Xylene	0.14	0.36	0.60	1.6
Styrene	0.14	0.11 J	0.59	0.46 J
Bromoform	0.14	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.95	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1006-07**

**Lab ID#: 0801530-08A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020720	Date of Collection:	1/29/08
Dil. Factor:	1.39	Date of Analysis:	2/7/08 10:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
1,2,4-Trichlorobenzene	0.70	Not Detected	5.2	Not Detected

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1006-07**

**Lab ID#: 0801530-08B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020720sim	Date of Collection:	1/29/08	
Dil. Factor:	1.39	Date of Analysis:	2/7/08 10:36 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.028	0.22	0.15	1.2
<b>Container Type: 6 Liter Summa Canister (100% Certified)</b>				
Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	91	70-130		
Toluene-d8	101	70-130		
4-Bromofluorobenzene	98	70-130		



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1006-20

Lab ID#: 0801530-06A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	2020722	Date of Collection: 1/28/08		
Dil. Factor:	1.34	Date of Analysis: 2/8/08 08:26 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.13	0.28	0.66	1.4
Chloromethane	0.13	Not Detected	0.28	Not Detected
Vinyl Chloride	0.13	Not Detected	0.34	Not Detected
Bromomethane	0.13	Not Detected	0.52	Not Detected
Chloroethane	0.13	Not Detected	0.35	Not Detected
Freon 11	0.13	0.30	0.75	1.7
Freon 113	0.13	0.083 J	1.0	0.64 J
1,1-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Acetone	0.67	68 E	1.6	160 E
Carbon Disulfide	0.67	1.5	2.1	4.7
Methylene Chloride	0.27	Not Detected	0.93	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.48	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
1,1-Dichloroethane	0.13	Not Detected	0.54	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.13	7.0	0.40	21
cis-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Chloroform	0.13	11	0.65	53
1,1,1-Trichloroethane	0.13	0.10 J	0.73	0.58 J
Carbon Tetrachloride	0.13	20	0.84	130
Benzene	0.13	2.2	0.43	7.2
1,2-Dichloroethane	0.13	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.13	Not Detected	0.62	Not Detected
Bromodichloromethane	0.13	Not Detected	0.90	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.61	Not Detected
4-Methyl-2-pentanone	0.13	Not Detected	0.55	Not Detected
Toluene	0.13	4.8	0.50	18
trans-1,3-Dichloropropene	0.13	Not Detected	0.61	Not Detected
1,1,2-Trichloroethane	0.13	Not Detected	0.73	Not Detected
Tetrachloroethene	0.13	4.1	0.91	28
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
1,2-Dibromoethane (EDB)	0.13	Not Detected	1.0	Not Detected
Chlorobenzene	0.13	Not Detected	0.62	Not Detected
Ethyl Benzene	0.13	0.73	0.58	3.2
m,p-Xylene	0.13	1.9	0.58	8.4
o-Xylene	0.13	0.52	0.58	2.2
Styrene	0.13	0.17	0.57	0.74
Bromoform	0.13	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.13	Not Detected	0.92	Not Detected
1,3-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1006-20

Lab ID#: 0801530-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	2020722	Date of Collection:	1/28/08
Dil. Factor:	1.34	Date of Analysis:	2/8/08 08:26 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected
1,2,4-Trichlorobenzene	0.67	Not Detected	5.0	Not Detected

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1006-20

Lab ID#: 0801530-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	z020722sim	Date of Collection:	1/28/08	
Dil. Factor:	1.34	Date of Analysis:	2/8/08 08:26 AM	
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.027	0.36	0.14	2.0
<b>Container Type: 6 Liter Summa Canister (100% Certified)</b>				
Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	88	70-130		
Toluene-d8	102	70-130		
4-Bromofluorobenzene	100	70-130		



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1006-45

Lab ID#: 0801530-05A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	z020721 1.39	Date of Collection: 1/28/08 Date of Analysis: 2/8/08 07:38 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.14	0.24	0.69	1.2
Chloromethane	0.14	0.24	0.29	0.50
Vinyl Chloride	0.14	Not Detected	0.36	Not Detected
Bromomethane	0.14	Not Detected	0.54	Not Detected
Chloroethane	0.14	Not Detected	0.37	Not Detected
Freon 11	0.14	0.25	0.78	1.4
Freon 113	0.14	0.091 J	1.1	0.70 J
1,1-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Acetone	0.70	240 E	1.6	570 E
Carbon Disulfide	0.70	0.76	2.2	2.4
Methylene Chloride	0.28	Not Detected	0.96	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.56	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.14	17	0.41	50
cis-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Chloroform	0.14	5.7	0.68	28
1,1,1-Trichloroethane	0.14	0.17	0.76	0.95
Carbon Tetrachloride	0.14	16	0.87	99
Benzene	0.14	7.1	0.44	23
1,2-Dichloroethane	0.14	Not Detected	0.56	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.64	Not Detected
Bromodichloromethane	0.14	Not Detected	0.93	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.57	Not Detected
Toluene	0.14	10	0.52	40
trans-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.76	Not Detected
Tetrachloroethene	0.14	6.5	0.94	44
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.64	Not Detected
Ethyl Benzene	0.14	1.2	0.60	5.2
m,p-Xylene	0.14	3.1	0.60	14
o-Xylene	0.14	0.63	0.60	2.7
Styrene	0.14	0.13 J	0.59	0.54 J
Bromoform	0.14	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.95	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-SG1006-45

Lab ID#: 0801530-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	2020721	Date of Collection:	1/28/08
Dil. Factor:	1.39	Date of Analysis:	2/8/08 07:38 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
1,2,4-Trichlorobenzene	0.70	Not Detected	5.2	Not Detected

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	103	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-SG1006-45**

**Lab ID#: 0801530-05B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	x020721sim	Date of Collection:	1/28/08
Dil. Factor:	1.39	Date of Analysis:	2/8/08 07:38 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.028	0.39	0.15	2.1

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVPML115-24

Lab ID#: 0801438C-10A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8013118	Date of Collection:	1/23/08	
Dil. Factor:	10.9	Date of Analysis:	1/31/08 09:05 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	5.4	Not Detected	27	Not Detected
Chloromethane	22	Not Detected	45	Not Detected
Vinyl Chloride	5.4	Not Detected	14	Not Detected
Bromomethane	5.4	Not Detected	21	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	5.4	Not Detected	31	Not Detected
Freon 113	5.4	640	42	4900
1,1-Dichloroethene	5.4	Not Detected	22	Not Detected
Acetone	22	21 J	52	49 J
Carbon Disulfide	5.4	Not Detected	17	Not Detected
Methylene Chloride	5.4	Not Detected	19	Not Detected
Methyl tert-butyl ether	5.4	Not Detected	20	Not Detected
trans-1,2-Dichloroethene	5.4	16	22	64
1,1-Dichloroethane	5.4	16	22	63
2-Butanone (Methyl Ethyl Ketone)	5.4	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	5.4	220	22	860
Chloroform	5.4	Not Detected	27	Not Detected
1,1,1-Trichloroethane	5.4	440	30	2400
Carbon Tetrachloride	5.4	Not Detected	34	Not Detected
Benzene	5.4	Not Detected	17	Not Detected
1,2-Dichloroethane	5.4	Not Detected	22	Not Detected
Trichloroethene	5.4	1300	29	7200
1,2-Dichloropropane	5.4	Not Detected	25	Not Detected
Bromodichloromethane	5.4	Not Detected	36	Not Detected
cis-1,3-Dichloropropene	5.4	Not Detected	25	Not Detected
4-Methyl-2-pentanone	5.4	Not Detected	22	Not Detected
Toluene	5.4	6.0	20	23
trans-1,3-Dichloropropene	5.4	Not Detected	25	Not Detected
1,1,2-Trichloroethane	5.4	Not Detected	30	Not Detected
Tetrachloroethene	5.4	780	37	5300
Dibromochloromethane	5.4	Not Detected	46	Not Detected
1,2-Dibromoethane (EDB)	5.4	Not Detected	42	Not Detected
Chlorobenzene	5.4	Not Detected	25	Not Detected
Ethyl Benzene	5.4	Not Detected	24	Not Detected
m,p-Xylene	5.4	5.9	24	26
o-Xylene	5.4	2.8 J	24	12 J
Styrene	5.4	Not Detected	23	Not Detected
Bromoform	5.4	Not Detected	56	Not Detected
1,1,2,2-Tetrachloroethane	5.4	Not Detected	37	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVPML115-24

Lab ID#: 0801438C-10A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8013118	Date of Collection:	1/23/08	
Dil. Factor:	10.9	Date of Analysis:	1/31/08 09:05 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,3-Dichlorobenzene	5.4	Not Detected	33	Not Detected
1,4-Dichlorobenzene	5.4	Not Detected	33	Not Detected
1,2-Dichlorobenzene	5.4	Not Detected	33	Not Detected
1,2,4-Trichlorobenzene	22	Not Detected U J	160	Not Detected U J

J = Estimated value.

UJ = Non-detected compound associated with low bias in the CCV

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	119	70-130
4-Bromofluorobenzene	100	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVPMI1-49

Lab ID#: 0801438B-11A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012912	Date of Collection:	1/23/08	
Dil. Factor:	1.36	Date of Analysis:	1/29/08 06:39 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit ( $\mu\text{g}/\text{m}^3$ )	Amount ( $\mu\text{g}/\text{m}^3$ )
Freon 12	0.14	0.36	0.67	1.8
Chloromethane	0.14	0.52	0.28	1.1
Vinyl Chloride	0.14	Not Detected	0.35	Not Detected
Bromomethane	0.14	Not Detected	0.53	Not Detected
Chloroethane	0.14	Not Detected	0.36	Not Detected
Freon 11	0.14	0.22	0.76	1.2
Freon 113	0.14	0.10 J	1.0	0.79 J
1,1-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Acetone	0.68	3.9	1.6	9.3
Carbon Disulfide	0.68	Not Detected	2.1	Not Detected
Methylene Chloride	0.27	0.14 J	0.94	0.49 J
Methyl tert-butyl ether	0.14	Not Detected	0.49	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.14	0.25	0.40	0.75
cis-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Chloroform	0.14	Not Detected	0.66	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Carbon Tetrachloride	0.14	0.12 J	0.86	0.75 J
Benzene	0.14	0.31	0.43	1.0
1,2-Dichloroethane	0.14	Not Detected	0.55	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.63	Not Detected
Bromodichloromethane	0.14	Not Detected	0.91	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.56	Not Detected
Toluene	0.14	0.58	0.51	2.2
trans-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.74	Not Detected
Tetrachloroethene	0.14	0.067 J	0.92	0.46 J
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.0	Not Detected
Chlorobenzene	0.14	Not Detected	0.63	Not Detected
Ethyl Benzene	0.14	0.10 J	0.59	0.44 J
m,p-Xylene	0.14	0.27	0.59	1.2
o-Xylene	0.14	0.11 J	0.59	0.47 J
Styrene	0.14	0.020 J	0.58	0.085 J
Bromoform	0.14	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.93	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVPM11-49

Lab ID#: 0801438B-11A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012912	Date of Collection:	1/23/08
Dil. Factor:	1.36	Date of Analysis:	1/29/08 06:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
1,2,4-Trichlorobenzene	0.68	Not Detected	5.0	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	127	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVPM11-49

Lab ID#: 0801438B-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012912sim	Date of Collection:	1/23/08
Dil. Factor:	1.36	Date of Analysis:	1/29/08 08:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.027	0.054	0.15	0.29

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	124	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVPML25-25

Lab ID#: 0801438C-06A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8013117		Date of Collection:	1/23/08
Dil. Factor:	136		Date of Analysis:	1/31/08 08:37 PM
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	68	Not Detected	340	Not Detected
Chloromethane	270	Not Detected	560	Not Detected
Vinyl Chloride	68	Not Detected	170	Not Detected
Bromomethane	68	Not Detected	260	Not Detected
Chloroethane	68	Not Detected	180	Not Detected
Freon 11	68	Not Detected	380	Not Detected
Freon 113	68	Not Detected	520	Not Detected
1,1-Dichloroethene	68	430	270	1700
Acetone	270	130 J	650	320 J
Carbon Disulfide	68	Not Detected	210	Not Detected
Methylene Chloride	68	Not Detected	240	Not Detected
Methyl tert-butyl ether	68	Not Detected	240	Not Detected
trans-1,2-Dichloroethene	68	Not Detected	270	Not Detected
1,1-Dichloroethane	68	180	280	710
2-Butanone (Methyl Ethyl Ketone)	68	Not Detected	200	Not Detected
cis-1,2-Dichloroethene	68	49 J	270	200 J
Chloroform	68	Not Detected	330	Not Detected
1,1,1-Trichloroethane	68	6500	370	36000
Carbon Tetrachloride	68	Not Detected	430	Not Detected
Benzene	68	Not Detected	220	Not Detected
1,2-Dichloroethane	68	Not Detected	280	Not Detected
Trichloroethene	68	14000	360	73000
1,2-Dichloropropane	68	Not Detected	310	Not Detected
Bromodichloromethane	68	Not Detected	460	Not Detected
cis-1,3-Dichloropropene	68	Not Detected	310	Not Detected
4-Methyl-2-pentanone	68	Not Detected	280	Not Detected
Toluene	68	Not Detected	260	Not Detected
trans-1,3-Dichloropropene	68	Not Detected	310	Not Detected
1,1,2-Trichloroethane	68	Not Detected	370	Not Detected
Tetrachloroethene	68	64 J	460	440 J
Dibromochloromethane	68	Not Detected	580	Not Detected
1,2-Dibromoethane (EDB)	68	Not Detected	520	Not Detected
Chlorobenzene	68	Not Detected	310	Not Detected
Ethyl Benzene	68	Not Detected	300	Not Detected
m,p-Xylene	68	Not Detected	300	Not Detected
o-Xylene	68	Not Detected	300	Not Detected
Styrene	68	Not Detected	290	Not Detected
Bromoform	68	Not Detected	700	Not Detected
1,1,2,2-Tetrachloroethane	68	Not Detected	470	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVPML25-25

Lab ID#: 0801438C-06A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8013117	Date of Collection:	1/23/08	
Dil. Factor:	136	Date of Analysis:	1/31/08 08:37:PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,3-Dichlorobenzene	68	Not Detected	410	Not Detected
1,4-Dichlorobenzene	68	Not Detected	410	Not Detected
1,2-Dichlorobenzene	68	Not Detected	410	Not Detected
1,2,4-Trichlorobenzene	270	Not Detected U J	2000	Not Detected U J

J = Estimated value.

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	120	70-130
4-Bromofluorobenzene	100	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVPM12-50

Lab ID#: 0801438C-07A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8013112 268	Date of Collection: 1/23/08 Date of Analysis: 1/31/08 05:29 PM		
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	130	Not Detected	660	Not Detected
Chloromethane	540	Not Detected	1100	Not Detected
Vinyl Chloride	130	Not Detected	340	Not Detected
Bromomethane	130	Not Detected	520	Not Detected
Chloroethane	130	Not Detected	350	Not Detected
Freon 11	130	Not Detected	750	Not Detected
Freon 113	130	Not Detected	1000	Not Detected
1,1-Dichloroethene	130	1200	530	4700
Acetone	540	210 J	1300	500 J
Carbon Disulfide	130	Not Detected	420	Not Detected
Methylene Chloride	130	Not Detected	460	Not Detected
Methyl tert-butyl ether	130	Not Detected	480	Not Detected
trans-1,2-Dichloroethene	130	Not Detected	530	Not Detected
1,1-Dichloroethane	130	340	540	1400
2-Butanone (Methyl Ethyl Ketone)	130	Not Detected	400	Not Detected
cis-1,2-Dichloroethene	130	200	530	780
Chloroform	130	Not Detected	650	Not Detected
1,1,1-Trichloroethane	130	14000	730	75000
Carbon Tetrachloride	130	Not Detected	840	Not Detected
Benzene	130	Not Detected	430	Not Detected
1,2-Dichloroethane	130	Not Detected	540	Not Detected
Trichloroethene	130	28000	720	150000
1,2-Dichloropropane	130	Not Detected	620	Not Detected
Bromodichloromethane	130	Not Detected	900	Not Detected
cis-1,3-Dichloropropene	130	Not Detected	610	Not Detected
4-Methyl-2-pentanone	130	Not Detected	550	Not Detected
Toluene	130	Not Detected	500	Not Detected
trans-1,3-Dichloropropene	130	Not Detected	610	Not Detected
1,1,2-Trichloroethane	130	Not Detected	730	Not Detected
Tetrachloroethene	130	79 J	910	540 J
Dibromochloromethane	130	Not Detected	1100	Not Detected
1,2-Dibromoethane (EDB)	130	Not Detected	1000	Not Detected
Chlorobenzene	130	Not Detected	620	Not Detected
Ethyl Benzene	130	Not Detected	580	Not Detected
m,p-Xylene	130	Not Detected	580	Not Detected
o-Xylene	130	Not Detected	580	Not Detected
Styrene	130	Not Detected	570	Not Detected
Bromoform	130	Not Detected	1400	Not Detected
1,1,2,2-Tetrachloroethane	130	Not Detected	920	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVPM12-50

Lab ID#: 0801438C-07A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8013112	Date of Collection:	1/23/08	
Dil. Factor:	268	Date of Analysis:	1/31/08 05:29 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,3-Dichlorobenzene	130	Not Detected	800	Not Detected
1,4-Dichlorobenzene	130	Not Detected	800	Not Detected
1,2-Dichlorobenzene	130	Not Detected	800	Not Detected
1,2,4-Trichlorobenzene	540	Not Detected U J	4000	Not Detected U J

J = Estimated value.

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	118	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801481B-08A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	5020704a	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 2/7/08 10:49 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.50	0.22 J	1.7	0.76 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	0.17 J	2.0	0.68 J
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801481B-08A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	5020704a	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	2/7/08 10:49 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,3-Dichlorobenzene	0.50	0.15 J	3.0	0.88 J
1,4-Dichlorobenzene	0.50	0.14 J	3.0	0.85 J
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	0.44 J	15	3.3 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	96	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801481B-09A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	5020702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/7/08 09:24 AM

Compound	%Recovery
Freon 12	92
Chloromethane	95
Vinyl Chloride	100
Bromomethane	102
Chloroethane	87
Freon 11	108
Freon 113	104
1,1-Dichloroethene	102
Acetone	90
Carbon Disulfide	103
Methylene Chloride	100
Methyl tert-butyl ether	77
trans-1,2-Dichloroethene	100
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	84
cis-1,2-Dichloroethene	93
Chloroform	84
1,1,1-Trichloroethane	95
Carbon Tetrachloride	99
Benzene	87
1,2-Dichloroethane	105
Trichloroethene	96
1,2-Dichloropropane	91
Bromodichloromethane	99
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	77
Toluene	89
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	96
Tetrachloroethene	99
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	93
Chlorobenzene	97
Ethyl Benzene	93
m,p-Xylene	96
o-Xylene	92
Styrene	86
Bromoform	103
1,1,2,2-Tetrachloroethane	91



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0801481B-09A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	5020702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/7/08 09:24 AM

Compound	%Recovery
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	97
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	92

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801481B-10A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	5020703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/7/08 09:52 AM

Compound	%Recovery
Freon 12	94
Chloromethane	90
Vinyl Chloride	94
Bromomethane	99
Chloroethane	80
Freon 11	101
Freon 113	110
1,1-Dichloroethene	106
Acetone	89
Carbon Disulfide	97
Methylene Chloride	101
Methyl tert-butyl ether	73
trans-1,2-Dichloroethene	92
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	79
cis-1,2-Dichloroethene	92
Chloroform	82
1,1,1-Trichloroethane	92
Carbon Tetrachloride	96
Benzene	82
1,2-Dichloroethane	99
Trichloroethene	90
1,2-Dichloropropane	85
Bromodichloromethane	94
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	73
Toluene	90
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	92
Tetrachloroethene	98
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	88
Chlorobenzene	96
Ethyl Benzene	89
m,p-Xylene	90
o-Xylene	90
Styrene	86
Bromoform	103
1,1,2,2-Tetrachloroethane	91



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801481B-10A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	5020703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/7/08 09:52 AM

Compound	%Recovery
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	96
1,2-Dichlorobenzene	89
1,2,4-Trichlorobenzene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	101	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1003-00

Lab ID#: 0801481-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s020424	Date of Collection: 1/24/08		
Dil. Factor:	1.58	Date of Analysis: 2/5/08 04:23 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.16	0.38	0.78	1.9
Chloromethane	0.16	0.64	0.33	1.3
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
Bromomethane	0.16	Not Detected	0.61	Not Detected
Chloroethane	0.16	Not Detected	0.42	Not Detected
Freon 11	0.16	0.18	0.89	1.0
Freon 113	0.16	0.13 J	1.2	1.0 J
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Acetone	0.79	4.4	1.9	10
Carbon Disulfide	0.79	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	0.12 J	1.1	0.42 J
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
1,1-Dichloroethane	0.16	Not Detected	0.64	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.16	0.49	0.46	1.4
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Carbon Tetrachloride	0.16	Not Detected	0.99	Not Detected
Benzene	0.16	0.26	0.50	0.84
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.73	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.65	Not Detected
Toluene	0.16	0.23	0.60	0.86
trans-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	Not Detected	1.1	Not Detected
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.73	Not Detected
Ethyl Benzene	0.16	Not Detected	0.69	Not Detected
m,p-Xylene	0.16	0.090 J	0.69	0.39 J
o-Xylene	0.16	0.028 J	0.69	0.12 J
Styrene	0.16	Not Detected	0.67	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1003-00

Lab ID#: 0801481-01A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020424	Date of Collection:	1/24/08	
Dil. Factor:	1.58	Date of Analysis:	2/5/08 04:23 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,2,4-Trichlorobenzene	0.79	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	105	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1003-00

Lab ID#: 0801481-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s020424sim	Date of Collection:	1/24/08	
Dil. Factor:	1.58	Date of Analysis:	2/5/08 04:23 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.032	0.0086 J	0.17	0.046 J

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	114	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1004-00

Lab ID#: 0801481-08A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s020521	Date of Collection: 1/25/08		
Dil. Factor:	2.98	Date of Analysis: 2/6/08 05:28 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.30	0.36	1.5	1.8
Chloromethane	0.30	0.71	0.62	1.5
Vinyl Chloride	0.30	Not Detected	0.76	Not Detected
Bromomethane	0.30	Not Detected	1.2	Not Detected
Chloroethane	0.30	Not Detected	0.79	Not Detected
Freon 11	0.30	0.23 J	1.7	1.3 J
Freon 113	0.30	0.12 J	2.3	0.94 J
1,1-Dichloroethene	0.30	Not Detected	1.2	Not Detected
Acetone	1.5	4.7	3.5	11
Carbon Disulfide	1.5	Not Detected	4.6	Not Detected
Methylene Chloride	0.60	Not Detected	2.1	Not Detected
Methyl tert-butyl ether	0.30	Not Detected	1.1	Not Detected
trans-1,2-Dichloroethene	0.30	Not Detected	1.2	Not Detected
1,1-Dichloroethane	0.30	Not Detected	1.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.30	0.55	0.88	1.6
cis-1,2-Dichloroethene	0.30	Not Detected	1.2	Not Detected
Chloroform	0.30	Not Detected	1.4	Not Detected
1,1,1-Trichloroethane	0.30	Not Detected	1.6	Not Detected
Carbon Tetrachloride	0.30	Not Detected	1.9	Not Detected
Benzene	0.30	0.24 J	0.95	0.78 J
1,2-Dichloroethane	0.30	Not Detected	1.2	Not Detected
1,2-Dichloropropane	0.30	Not Detected	1.4	Not Detected
Bromodichloromethane	0.30	Not Detected	2.0	Not Detected
cis-1,3-Dichloropropene	0.30	Not Detected	1.4	Not Detected
4-Methyl-2-pentanone	0.30	Not Detected	1.2	Not Detected
Toluene	0.30	0.30	1.1	1.1
trans-1,3-Dichloropropene	0.30	Not Detected	1.4	Not Detected
1,1,2-Trichloroethane	0.30	Not Detected	1.6	Not Detected
Tetrachloroethene	0.30	Not Detected	2.0	Not Detected
Dibromochloromethane	0.30	Not Detected	2.5	Not Detected
1,2-Dibromoethane (EDB)	0.30	Not Detected	2.3	Not Detected
Chlorobenzene	0.30	Not Detected	1.4	Not Detected
Ethyl Benzene	0.30	Not Detected	1.3	Not Detected
m,p-Xylene	0.30	0.099 J	1.3	0.43 J
o-Xylene	0.30	0.035 J	1.3	0.15 J
Styrene	0.30	Not Detected	1.3	Not Detected
Bromoform	0.30	Not Detected	3.1	Not Detected
1,1,2,2-Tetrachloroethane	0.30	Not Detected	2.0	Not Detected
1,3-Dichlorobenzene	0.30	Not Detected	1.8	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1004-00

Lab ID#: 0801481-08A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020521	Date of Collection:	1/25/08	
Dil. Factor:	2.98	Date of Analysis:	2/6/08 05:28 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.30	Not Detected	1.8	Not Detected
1,2-Dichlorobenzene	0.30	Not Detected	1.8	Not Detected
1,2,4-Trichlorobenzene	1.5	Not Detected	11	Not Detected

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	112	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-FB1004-00**

**Lab ID#: 0801481-08B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020521slim	Date of Collection:	1/25/08	
Dil. Factor:	2.98	Date of Analysis:	2/6/08 05:28 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.060	0.015 J	0.32	0.080 J

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	121	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801481-09A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s020405a	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 2/4/08 12:21 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	0.26 J	1.2	0.61 J
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	0.042 J	0.69	0.14 J
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	0.046 J	0.41	0.19 J
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	0.014 J	0.42	0.060 J
Bromoform	0.10	Not Detected	1.0	Not Detected
1,1,2,2-Tetrachloroethane	0.10	0.019 J	0.69	0.13 J
1,3-Dichlorobenzene	0.10	0.037 J	0.60	0.22 J



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801481-09A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020405a	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/4/08 12:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	0.23 J	3.7	1.7 J

J = Estimated value.

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	107	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801481-09B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name: Dil. Factor:	s020405sim 1.00	Date of Collection: NA Date of Analysis: 2/4/08 12:21 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.020	0.0045 J	0.11	0.024 J

J = Estimated value.

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	80	70-130
4-Bromofluorobenzene	116	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801481-09C

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: Dil. Factor:	s020507a 1.00	Date of Collection: NA		Date of Analysis: 2/5/08 02:57 PM
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	0.10 J	1.2	0.24 J
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801481-09C**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020507a	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	2/5/08 02:57 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected

J = Estimated value.

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	108	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801481-09D

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020507asim	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	2/5/08 02:57 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.020	Not Detected	0.11	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	82	70-130
4-Bromofluorobenzene	117	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801481-10A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/4/08 10:28 AM

Compound	%Recovery
Freon 12	92
Chloromethane	110
Vinyl Chloride	91
Bromomethane	88
Chloroethane	103
Freon 11	92
Freon 113	92
1,1-Dichloroethene	84
Acetone	125
Carbon Disulfide	90
Methylene Chloride	80
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	83
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	91
Chloroform	102
1,1,1-Trichloroethane	99
Carbon Tetrachloride	78
Benzene	94
1,2-Dichloroethane	112
1,2-Dichloropropane	95
Bromodichloromethane	93
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	134 Q
Toluene	93
trans-1,3-Dichloropropene	86
1,1,2-Trichloroethane	90
Tetrachloroethene	94
Dibromochloromethane	94
1,2-Dibromoethane (EDB)	92
Chlorobenzene	97
Ethyl Benzene	97
m,p-Xylene	99
o-Xylene	103
Styrene	99
Bromoform	99
1,1,2,2-Tetrachloroethane	98
1,3-Dichlorobenzene	110



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801481-10A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	S020402	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/4/08 10:28 AM

Compound	%Recovery
1,4-Dichlorobenzene	109
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	92

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	110	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0801481-10B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020402sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/4/08 10:28 AM

<b>Compound</b>	<b>%Recovery</b>
Trichloroethene	104

**Container Type: NA - Not Applicable**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	119	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801481-10C

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020502	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/5/08 10:54 AM

Compound	%Recovery
Freon 12	95
Chloromethane	112
Vinyl Chloride	92
Bromomethane	97
Chloroethane	106
Freon 11	94
Freon 113	91
1,1-Dichloroethene	86
Acetone	101
Carbon Disulfide	91
Methylene Chloride	81
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	82
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	85
cis-1,2-Dichloroethene	94
Chloroform	104
1,1,1-Trichloroethane	102
Carbon Tetrachloride	80
Benzene	92
1,2-Dichloroethane	115
1,2-Dichloropropane	94
Bromodichloromethane	92
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	130
Toluene	94
trans-1,3-Dichloropropene	81
1,1,2-Trichloroethane	88
Tetrachloroethene	93
Dibromochloromethane	93
1,2-Dibromoethane (EDB)	92
Chlorobenzene	96
Ethyl Benzene	94
m,p-Xylene	96
o-Xylene	97
Styrene	97
Bromoform	94
1,1,2,2-Tetrachloroethane	95
1,3-Dichlorobenzene	108



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801481-10C

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020502	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/5/08 10:54 AM

Compound	%Recovery
1,4-Dichlorobenzene	106
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	105	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0801481-10D**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020502sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/5/08 10:54 AM

Compound	%Recovery
Trichloroethene	105

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	117	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801481-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s020403	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/4/08 11:10 AM

Compound	%Recovery
Freon 12	88
Chloromethane	126
Vinyl Chloride	89
Bromomethane	83
Chloroethane	100
Freon 11	92
Freon 113	100
1,1-Dichloroethene	95
Acetone	101
Carbon Disulfide	89
Methylene Chloride	86
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	82
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	84
cis-1,2-Dichloroethene	94
Chloroform	106
1,1,1-Trichloroethane	103
Carbon Tetrachloride	106
Benzene	92
1,2-Dichloroethane	118
1,2-Dichloropropane	94
Bromodichloromethane	94
cis-1,3-Dichloropropene	87
4-Methyl-2-pentanone	128
Toluene	97
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	95
Tetrachloroethene	100
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	95
Chlorobenzene	100
Ethyl Benzene	101
m,p-Xylene	103
o-Xylene	105
Styrene	102
Bromoform	103
1,1,2,2-Tetrachloroethane	96
1,3-Dichlorobenzene	111



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0801481-11A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/4/08 11:10 AM

<b>Compound</b>	<b>%Recovery</b>
1,4-Dichlorobenzene	110
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	96

**Container Type: NA - Not Applicable**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	101	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0801481-11B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

<b>File Name:</b>	s020403sim	<b>Date of Collection:</b> NA
<b>Dil. Factor:</b>	1.00	<b>Date of Analysis:</b> 2/4/08 11:10 AM

<b>Compound</b>	<b>%Recovery</b>
Trichloroethene	105

**Container Type: NA - Not Applicable**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	83	70-130
4-Bromofluorobenzene	110	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801481-11C

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/5/08 11:24 AM

Compound	%Recovery
Freon 12	99
Chloromethane	118
Vinyl Chloride	95
Bromomethane	104
Chloroethane	110
Freon 11	102
Freon 113	107
1,1-Dichloroethene	101
Acetone	133
Carbon Disulfide	96
Methylene Chloride	94
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	90
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	100
Chloroform	112
1,1,1-Trichloroethane	112
Carbon Tetrachloride	118
Benzene	94
1,2-Dichloroethane	123
1,2-Dichloropropane	101
Bromodichloromethane	99
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	134
Toluene	103
trans-1,3-Dichloropropene	82
1,1,2-Trichloroethane	88
Tetrachloroethene	93
Dibromochloromethane	95
1,2-Dibromoethane (EDB)	89
Chlorobenzene	96
Ethyl Benzene	95
m,p-Xylene	97
o-Xylene	102
Styrene	97
Bromoform	100
1,1,2,2-Tetrachloroethane	99
1,3-Dichlorobenzene	108



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801481-11C

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020503	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/5/08 11:24 AM

Compound	%Recovery
1,4-Dichlorobenzene	104
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	127	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	110	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0801481-11D**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s020503sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/5/08 11:24 AM

Compound	%Recovery
Trichloroethene	107

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1001-00

Lab ID#: 0801438A-01A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012815	Date of Collection: 1/22/08		
Dil. Factor:	1.58	Date of Analysis: 1/28/08 08:31 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.16	0.38	0.78	1.9
Chloromethane	0.16	0.51	0.33	1.0
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
Bromomethane	0.16	Not Detected	0.61	Not Detected
Chloroethane	0.16	Not Detected	0.42	Not Detected
Freon 11	0.16	0.27	0.89	1.5
Freon 113	0.16	0.092 J	1.2	0.70 J
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Acetone	0.79	1.7	1.9	4.0
Carbon Disulfide	0.79	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	0.13 J	1.1	0.46 J
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
1,1-Dichloroethane	0.16	Not Detected	0.64	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.16	0.38	0.46	1.1
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Carbon Tetrachloride	0.16	0.13 J	0.99	0.82 J
Benzene	0.16	0.27	0.50	0.85
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.73	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.65	Not Detected
Toluene	0.16	0.38	0.60	1.4
trans-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	0.059 J	1.1	0.40 J
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.73	Not Detected
Ethyl Benzene	0.16	Not Detected	0.69	Not Detected
m,p-Xylene	0.16	0.13 J	0.69	0.58 J
o-Xylene	0.16	0.048 J	0.69	0.21 J
Styrene	0.16	Not Detected	0.67	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-FB1001-00**

**Lab ID#: 0801438A-01A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012815	Date of Collection:	1/22/08	
Dil. Factor:	1.58	Date of Analysis:	1/28/08 08:31 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,2,4-Trichlorobenzene	0.79	Not Detected	5.9	Not Detected

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-FB1001-00**

**Lab ID#: 0801438A-01B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012815sim	Date of Collection:	1/22/08	
Dil. Factor:	1.58	Date of Analysis:	1/28/08 08:31 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.032	0.016 J	0.17	0.085 J

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1002-00

Lab ID#: 0801438A-08A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012909	Date of Collection:	1/23/08	
Dil. Factor:	1.49	Date of Analysis:	1/29/08 04:55 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.15	0.34	0.74	1.7
Chloromethane	0.15	0.47	0.31	0.98
Vinyl Chloride	0.15	Not Detected	0.38	Not Detected
Bromomethane	0.15	Not Detected	0.58	Not Detected
Chloroethane	0.15	Not Detected	0.39	Not Detected
Freon 11	0.15	0.23	0.84	1.3
Freon 113	0.15	0.10 J	1.1	0.80 J
1,1-Dichloroethene	0.15	Not Detected	0.59	Not Detected
Acetone	0.74	2.5	1.8	5.9
Carbon Disulfide	0.74	Not Detected	2.3	Not Detected
Methylene Chloride	0.30	0.088 J	1.0	0.30 J
Methyl tert-butyl ether	0.15	Not Detected	0.54	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected
1,1-Dichloroethane	0.15	Not Detected	0.60	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.15	0.48	0.44	1.4
cis-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected
Chloroform	0.15	Not Detected	0.73	Not Detected
1,1,1-Trichloroethane	0.15	Not Detected	0.81	Not Detected
Carbon Tetrachloride	0.15	0.092 J	0.94	0.58 J
Benzene	0.15	0.25	0.48	0.80
1,2-Dichloroethane	0.15	Not Detected	0.60	Not Detected
1,2-Dichloropropane	0.15	Not Detected	0.69	Not Detected
Bromodichloromethane	0.15	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.15	Not Detected	0.68	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected	0.61	Not Detected
Toluene	0.15	0.32	0.56	1.2
trans-1,3-Dichloropropene	0.15	Not Detected	0.68	Not Detected
1,1,2-Trichloroethane	0.15	Not Detected	0.81	Not Detected
Tetrachloroethene	0.15	0.076 J	1.0	0.51 J
Dibromochloromethane	0.15	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.15	Not Detected	1.1	Not Detected
Chlorobenzene	0.15	Not Detected	0.68	Not Detected
Ethyl Benzene	0.15	0.042 J	0.65	0.18 J
m,p-Xylene	0.15	0.11 J	0.65	0.50 J
o-Xylene	0.15	0.043 J	0.65	0.18 J
Styrene	0.15	Not Detected	0.63	Not Detected
Bromoform	0.15	Not Detected	1.5	Not Detected
1,1,2,2-Tetrachloroethane	0.15	Not Detected	1.0	Not Detected
1,3-Dichlorobenzene	0.15	Not Detected	0.90	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1002-00

Lab ID#: 0801438A-08A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012909	Date of Collection:	1/23/08	
Dil. Factor:	1.49	Date of Analysis:	1/29/08 04:55 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.15	Not Detected	0.90	Not Detected
1,2-Dichlorobenzene	0.15	Not Detected	0.90	Not Detected
1,2,4-Trichlorobenzene	0.74	Not Detected	5.5	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	123	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1002-00

Lab ID#: 0801438A-08B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012909sim	Date of Collection:	1/23/08	
Dil. Factor:	1.49	Date of Analysis:	1/29/08 04:55 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.030	0.020 J	0.16	0.11 J

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801438A-10A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012807a	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 1/28/08 01:35 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	0.070 J	1.2	0.16 J
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801438A-10A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012807a	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 1/28/08 01:35 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected

J = Estimated value.

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	121	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801438A-10B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012807sima	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	1/28/08 01:35 PM	
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.020	Not Detected	0.11	Not Detected
<b>Container Type: NA - Not Applicable</b>				
Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	90	70-130		
Toluene-d8	82	70-130		
4-Bromofluorobenzene	120	70-130		



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801438A-10C

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012905a	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 1/29/08 02:11:PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	0.19 J	1.2	0.44 J
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	0.036 J	0.69	0.12 J
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	0.026 J	0.41	0.10 J
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	0.017 J	0.42	0.074 J
Bromoform	0.10	Not Detected	1.0	Not Detected
1,1,2,2-Tetrachloroethane	0.10	0.030 J	0.69	0.21 J
1,3-Dichlorobenzene	0.10	0.047 J	0.60	0.28 J



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801438A-10C**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012905a	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	1/29/08 02:11 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.10	0.064 J	0.60	0.38 J
1,2-Dichlorobenzene	0.10	0.065 J	0.60	0.39 J
1,2,4-Trichlorobenzene	0.50	0.34 J	3.7	2.5 J

J = Estimated value.

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801438A-10D**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012905sim.a	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	1/29/08 02:11 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.020	0.0035 J	0.11	0.019 J

J = Estimated value.

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	82	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801438A-11A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012802	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/28/08 08:55 AM

Compound	%Recovery
Freon 12	87
Chloromethane	102
Vinyl Chloride	81
Bromomethane	97
Chloroethane	94
Freon 11	85
Freon 113	94
1,1-Dichloroethene	78
Acetone	98
Carbon Disulfide	80
Methylene Chloride	70
Methyl tert-butyl ether	71
trans-1,2-Dichloroethene	79
1,1-Dichloroethane	83
2-Butanone (Methyl Ethyl Ketone)	76
cis-1,2-Dichloroethene	87
Chloroform	92
1,1,1-Trichloroethane	88
Carbon Tetrachloride	91
Benzene	83
1,2-Dichloroethane	92
1,2-Dichloropropane	83
Bromodichloromethane	82
cis-1,3-Dichloropropene	80
4-Methyl-2-pentanone	96
Toluene	87
trans-1,3-Dichloropropene	76
1,1,2-Trichloroethane	81
Tetrachloroethene	98
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	86
Chlorobenzene	92
Ethyl Benzene	89
m,p-Xylene	92
o-Xylene	93
Styrene	93
Bromoform	105
1,1,2,2-Tetrachloroethane	88
1,3-Dichlorobenzene	104



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0801438A-11A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/28/08 08:55 AM

Compound	%Recovery
1,4-Dichlorobenzene	104
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	104

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	119	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0801438A-11B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012802sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/28/08 08:55 AM

Compound	%Recovery
Trichloroethene	94

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	116	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801438A-11C

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012902	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/29/08 11:38 AM

Compound	%Recovery
Freon 12	95
Chloromethane	101
Vinyl Chloride	94
Bromomethane	91
Chloroethane	90
Freon 11	109
Freon 113	109
1,1-Dichloroethene	89
Acetone	98
Carbon Disulfide	91
Methylene Chloride	82
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	88
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	97
Chloroform	107
1,1,1-Trichloroethane	105
Carbon Tetrachloride	90
Benzene	96
1,2-Dichloroethane	111
1,2-Dichloropropane	96
Bromodichloromethane	98
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	133 Q
Toluene	100
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	96
Tetrachloroethene	113
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	102
Chlorobenzene	106
Ethyl Benzene	104
m,p-Xylene	106
o-Xylene	109
Styrene	109
Bromoform	128
1,1,2,2-Tetrachloroethane	108
1,3-Dichlorobenzene	129



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801438A-11C

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012902	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/29/08 11:38 AM

Compound	%Recovery
1,4-Dichlorobenzene	128
1,2-Dichlorobenzene	130
1,2,4-Trichlorobenzene	122

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	122	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0801438A-11D**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012902sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/29/08 11:38 AM

Compound	%Recovery
Trichloroethene	110

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	122	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801438A-12A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/28/08 10:17 AM

Compound	%Recovery
Freon 12	90
Chloromethane	113
Vinyl Chloride	90
Bromomethane	105
Chloroethane	106
Freon 11	98
Freon 113	116
1,1-Dichloroethene	101
Acetone	98
Carbon Disulfide	94
Methylene Chloride	90
Methyl tert-butyl ether	83
trans-1,2-Dichloroethene	92
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	102
Chloroform	111
1,1,1-Trichloroethane	107
Carbon Tetrachloride	113
Benzene	99
1,2-Dichloroethane	114
1,2-Dichloropropane	98
Bromodichloromethane	101
cis-1,3-Dichloropropene	96
4-Methyl-2-pentanone	126
Toluene	108
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	95
Tetrachloroethene	114
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	100
Chlorobenzene	107
Ethyl Benzene	106
m,p-Xylene	108
o-Xylene	112
Styrene	109
Bromoform	130
1,1,2,2-Tetrachloroethane	108
1,3-Dichlorobenzene	129



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0801438A-12A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/28/08 10:17 AM

<b>Compound</b>	<b>%Recovery</b>
1,4-Dichlorobenzene	127
1,2-Dichlorobenzene	128
1,2,4-Trichlorobenzene	153 Q

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801438A-12B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012803sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/28/08 10:17 AM

Compound	%Recovery
Trichloroethene	111

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801438A-12C

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012903	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/29/08 12:09 PM

Compound	%Recovery
Freon 12	100
Chloromethane	104
Vinyl Chloride	96
Bromomethane	110
Chloroethane	114
Freon 11	106
Freon 113	121
1,1-Dichloroethene	110
Acetone	106
Carbon Disulfide	101
Methylene Chloride	95
Methyl tert-butyl ether	85
trans-1,2-Dichloroethene	94
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	84
cis-1,2-Dichloroethene	92
Chloroform	94
1,1,1-Trichloroethane	98
Carbon Tetrachloride	104
Benzene	88
1,2-Dichloroethane	99
1,2-Dichloropropane	93
Bromodichloromethane	95
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	124
Toluene	106
trans-1,3-Dichloropropene	84
1,1,2-Trichloroethane	89
Tetrachloroethene	107
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	93
Chlorobenzene	103
Ethyl Benzene	100
m,p-Xylene	103
o-Xylene	109
Styrene	105
Bromoform	125
1,1,2,2-Tetrachloroethane	104
1,3-Dichlorobenzene	128



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0801438A-12C**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012903	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/29/08 12:09 PM

Compound	%Recovery
1,4-Dichlorobenzene	126
1,2-Dichlorobenzene	127
1,2,4-Trichlorobenzene	147 Q

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0801438A-12D**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012903sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/29/08 12:09 PM

Compound	%Recovery
Trichloroethene	100

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1005-00

Lab ID#: 0801530-01A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	z020716	Date of Collection:	1/28/08	
Dil. Factor:	1.44	Date of Analysis:	2/7/08 08:08 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.14	0.53	0.71	2.6
Chloromethane	0.14	0.64	0.30	1.3
Vinyl Chloride	0.14	Not Detected	0.37	Not Detected
Bromomethane	0.14	Not Detected	0.56	Not Detected
Chloroethane	0.14	Not Detected	0.38	Not Detected
Freon 11	0.14	0.31	0.81	1.7
Freon 113	0.14	0.10 J	1.1	0.77 J
1,1-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Acetone	0.72	3.6	1.7	8.6
Carbon Disulfide	0.72	Not Detected	2.2	Not Detected
Methylene Chloride	0.29	0.12 J	1.0	0.42 J
Methyl tert-butyl ether	0.14	Not Detected	0.52	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.58	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.14	0.36	0.42	1.1
cis-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Chloroform	0.14	Not Detected	0.70	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.78	Not Detected
Carbon Tetrachloride	0.14	0.086 J	0.91	0.54 J
Benzene	0.14	0.21	0.46	0.68
1,2-Dichloroethane	0.14	Not Detected	0.58	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.66	Not Detected
Bromodichloromethane	0.14	Not Detected	0.96	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.59	Not Detected
Toluene	0.14	0.21	0.54	0.79
trans-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.78	Not Detected
Tetrachloroethene	0.14	Not Detected	0.98	Not Detected
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.66	Not Detected
Ethyl Benzene	0.14	Not Detected	0.62	Not Detected
m,p-Xylene	0.14	0.049 J	0.62	0.21 J
o-Xylene	0.14	Not Detected	0.62	Not Detected
Styrene	0.14	Not Detected	0.61	Not Detected
Bromoform	0.14	Not Detected	1.5	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.99	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1005-00

Lab ID#: 0801530-01A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020716	Date of Collection:	1/28/08
Dil. Factor:	1.44	Date of Analysis:	2/7/08 08:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
1,2,4-Trichlorobenzene	0.72	Not Detected	5.3	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	90	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: BPSI-FB1005-00**

**Lab ID#: 0801530-01B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020716sim	Date of Collection:	1/28/08	
Dil. Factor:	1.44	Date of Analysis:	2/7/08 08:08 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.029	0.0073 J	0.15	0.039 J

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	92	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1006-00

Lab ID#: 0801530-07A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	2020806	Date of Collection:	1/29/08	
Dil. Factor:	6.19	Date of Analysis:	2/8/08 12:40 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.62	0.49 J	3.1	2.4 J
Chloromethane	0.62	0.46 J	1.3	0.94 J
Vinyl Chloride	0.62	Not Detected	1.6	Not Detected
Bromomethane	0.62	Not Detected	2.4	Not Detected
Chloroethane	0.62	Not Detected	1.6	Not Detected
Freon 11	0.62	0.25 J	3.5	1.4 J
Freon 113	0.62	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.62	Not Detected	2.4	Not Detected
Acetone	3.1	1.1 J	7.4	2.6 J
Carbon Disulfide	3.1	Not Detected	9.6	Not Detected
Methylene Chloride	1.2	Not Detected	4.3	Not Detected
Methyl tert-butyl ether	0.62	Not Detected	2.2	Not Detected
trans-1,2-Dichloroethene	0.62	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.62	Not Detected	2.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.62	Not Detected	1.8	Not Detected
cis-1,2-Dichloroethene	0.62	Not Detected	2.4	Not Detected
Chloroform	0.62	Not Detected	3.0	Not Detected
1,1,1-Trichloroethane	0.62	Not Detected	3.4	Not Detected
Carbon Tetrachloride	0.62	Not Detected	3.9	Not Detected
Benzene	0.62	0.55 J	2.0	1.8 J
1,2-Dichloroethane	0.62	Not Detected	2.5	Not Detected
1,2-Dichloropropane	0.62	Not Detected	2.9	Not Detected
Bromodichloromethane	0.62	Not Detected	4.1	Not Detected
cis-1,3-Dichloropropene	0.62	Not Detected	2.8	Not Detected
4-Methyl-2-pentanone	0.62	Not Detected	2.5	Not Detected
Toluene	0.62	0.89	2.3	3.4
trans-1,3-Dichloropropene	0.62	Not Detected	2.8	Not Detected
1,1,2-Trichloroethane	0.62	Not Detected	3.4	Not Detected
Tetrachloroethene	0.62	Not Detected	4.2	Not Detected
Dibromochloromethane	0.62	Not Detected	5.3	Not Detected
1,2-Dibromoethane (EDB)	0.62	Not Detected	4.8	Not Detected
Chlorobenzene	0.62	Not Detected	2.8	Not Detected
Ethyl Benzene	0.62	Not Detected	2.7	Not Detected
m,p-Xylene	0.62	0.17 J	2.7	0.75 J
o-Xylene	0.62	Not Detected	2.7	Not Detected
Styrene	0.62	Not Detected	2.6	Not Detected
Bromoform	0.62	Not Detected	6.4	Not Detected
1,1,2,2-Tetrachloroethane	0.62	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.62	Not Detected	3.7	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1006-00

Lab ID#: 0801530-07A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020806	Date of Collection:	1/29/08	
Dil. Factor:	6.19	Date of Analysis:	2/8/08 12:40 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.62	Not Detected	3.7	Not Detected
1,2-Dichlorobenzene	0.62	Not Detected	3.7	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BPSI-FB1006-00

Lab ID#: 0801530-07B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020806sim	Date of Collection:	1/29/08	
Dil. Factor:	6.19	Date of Analysis:	2/8/08 12:40 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.12	5.2	0.66	28
<b>Container Type: 6 Liter Summa Canister (100% Certified)</b>				
Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	96	70-130		
Toluene-d8	94	70-130		
4-Bromofluorobenzene	98	70-130		



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801530-09A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	z020706a 1.00	Date of Collection: NA Date of Analysis: 2/7/08 12:20 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	0.17 J	1.2	0.40 J
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801530-09A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020706a	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	2/7/08 12:20 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected

J = Estimated value.

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	94	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801530-09B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020706asim	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	2/7/08 12:20 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.020	Not Detected	0.11	Not Detected
<b>Container Type: NA - Not Applicable</b>				
Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	110	70-130		
Toluene-d8	99	70-130		
4-Bromofluorobenzene	94	70-130		



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801530-09C

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z2020805a 1.00	Date of Collection: NA	Date of Analysis: 2/8/08 11:43 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801530-09C**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020805a	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	2/8/08 11:43 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	0.090 J	3.7	0.67 J

J = Estimated value.

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	104	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801530-09D**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020805asim	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	2/8/08 11:43 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.020	Not Detected	0.11	Not Detected

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	101	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801530-10A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/7/08 09:23 AM

Compound	%Recovery
Freon 12	107
Chloromethane	110
Vinyl Chloride	107
Bromomethane	97
Chloroethane	97
Freon 11	115
Freon 113	110
1,1-Dichloroethene	94
Acetone	96
Carbon Disulfide	100
Methylene Chloride	100
Methyl tert-butyl ether	74
trans-1,2-Dichloroethene	109
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	92
Chloroform	103
1,1,1-Trichloroethane	100
Carbon Tetrachloride	110
Benzene	111
1,2-Dichloroethane	114
1,2-Dichloropropane	110
Bromodichloromethane	113
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	116
Toluene	108
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	114
Tetrachloroethene	116
Dibromochloromethane	122
1,2-Dibromoethane (EDB)	111
Chlorobenzene	111
Ethyl Benzene	106
m,p-Xylene	110
o-Xylene	111
Styrene	113
Bromoform	127
1,1,2,2-Tetrachloroethane	110
1,3-Dichlorobenzene	108



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0801530-10A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020702	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/7/08 09:23 AM

Compound	%Recovery
1,4-Dichlorobenzene	107
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	87

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	105	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0801530-10B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z2020702sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/7/08 09:23 AM

Compound	%Recovery
Trichloroethene	101

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	104	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801530-10C

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	2020802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/8/08 10:07 AM

Compound	%Recovery
Freon 12	100
Chloromethane	96
Vinyl Chloride	99
Bromomethane	96
Chloroethane	96
Freon 11	109
Freon 113	103
1,1-Dichloroethene	107
Acetone	97
Carbon Disulfide	104
Methylene Chloride	102
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	112
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	112
cis-1,2-Dichloroethene	107
Chloroform	99
1,1,1-Trichloroethane	96
Carbon Tetrachloride	101
Benzene	100
1,2-Dichloroethane	96
1,2-Dichloropropane	101
Bromodichloromethane	100
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	105
Toluene	103
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	106
Tetrachloroethene	107
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	105
Chlorobenzene	101
Ethyl Benzene	102
m,p-Xylene	106
o-Xylene	109
Styrene	108
Bromoform	119
1,1,2,2-Tetrachloroethane	101
1,3-Dichlorobenzene	103



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801530-10C

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020802	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/8/08 10:07 AM

Compound	%Recovery
1,4-Dichlorobenzene	100
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0801530-10D**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	<b>z020802sim</b>	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/8/08 10:07 AM

<b>Compound</b>	<b>%Recovery</b>
Trichloroethene	98

**Container Type: NA - Not Applicable**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801530-11A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/7/08 09:53 AM

Compound	%Recovery
Freon 12	96
Chloromethane	101
Vinyl Chloride	95
Bromomethane	86
Chloroethane	94
Freon 11	102
Freon 113	114
1,1-Dichloroethene	98
Acetone	88
Carbon Disulfide	93
Methylene Chloride	96
Methyl tert-butyl ether	70
trans-1,2-Dichloroethene	100
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	91
Chloroform	97
1,1,1-Trichloroethane	93
Carbon Tetrachloride	101
Benzene	99
1,2-Dichloroethane	104
1,2-Dichloropropane	101
Bromodichloromethane	103
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	104
Toluene	101
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	102
Tetrachloroethene	105
Dibromochloromethane	113
1,2-Dibromoethane (EDB)	99
Chlorobenzene	98
Ethyl Benzene	95
m,p-Xylene	101
o-Xylene	103
Styrene	101
Bromoform	116
1,1,2,2-Tetrachloroethane	101
1,3-Dichlorobenzene	100



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0801530-11A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/7/08 09:53 AM

Compound	%Recovery
1,4-Dichlorobenzene	96
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	94

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801530-11B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z2020703sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/7/08 09:53 AM

Compound	%Recovery
Trichloroethene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801530-11C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	z020803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/8/08 10:38 AM

Compound	%Recovery
Freon 12	92
Chloromethane	87
Vinyl Chloride	88
Bromomethane	85
Chloroethane	83
Freon 11	100
Freon 113	108
1,1-Dichloroethene	110
Acetone	88
Carbon Disulfide	97
Methylene Chloride	104
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	104
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	113
cis-1,2-Dichloroethene	103
Chloroform	98
1,1,1-Trichloroethane	92
Carbon Tetrachloride	99
Benzene	95
1,2-Dichloroethane	90
1,2-Dichloropropane	94
Bromodichloromethane	95
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	96
Toluene	100
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	105
Tetrachloroethene	111
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	100
Chlorobenzene	99
Ethyl Benzene	97
m,p-Xylene	100
o-Xylene	107
Styrene	105
Bromoform	121
1,1,2,2-Tetrachloroethane	98
1,3-Dichlorobenzene	105



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0801530-11C**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/8/08 10:38 AM

Compound	%Recovery
1,4-Dichlorobenzene	103
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	116

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	109	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801530-11D

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	z020803sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/8/08 10:38 AM

Compound	%Recovery
Trichloroethene	96

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801438C-14A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	8013105a 1.00	Date of Collection: NA Date of Analysis: 1/31/08 11:58 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0801438C-14A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8013105a	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	1/31/08 11:58 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected U J	15	Not Detected U J

UJ = Non-detected compound associated with low bias in the CCV

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	96	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801438C-15A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8013102	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/31/08 09:32 AM

Compound	%Recovery
Freon 12	96
Chloromethane	84
Vinyl Chloride	80
Bromomethane	82
Chloroethane	84
Freon 11	91
Freon 113	85
1,1-Dichloroethene	84
Acetone	83
Carbon Disulfide	79
Methylene Chloride	84
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	81
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	74
cis-1,2-Dichloroethene	78
Chloroform	84
1,1,1-Trichloroethane	94
Carbon Tetrachloride	107
Benzene	75
1,2-Dichloroethane	90
Trichloroethene	78
1,2-Dichloropropane	72
Bromodichloromethane	86
cis-1,3-Dichloropropene	80
4-Methyl-2-pentanone	82
Toluene	76
trans-1,3-Dichloropropene	87
1,1,2-Trichloroethane	82
Tetrachloroethene	81
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	81
Chlorobenzene	78
Ethyl Benzene	80
m,p-Xylene	78
o-Xylene	79
Styrene	83
Bromoform	93
1,1,2,2-Tetrachloroethane	76



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0801438C-15A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8013102	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/31/08 09:32 AM

<b>Compound</b>	<b>%Recovery</b>
1,3-Dichlorobenzene	75
1,4-Dichlorobenzene	73
1,2-Dichlorobenzene	77
1,2,4-Trichlorobenzene	65 Q

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	107	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801438C-16A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8013103	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/31/08 10:06 AM

Compound	%Recovery
Freon 12	86
Chloromethane	85
Vinyl Chloride	74
Bromomethane	79
Chloroethane	79
Freon 11	83
Freon 113	88
1,1-Dichloroethene	88
Acetone	82
Carbon Disulfide	76
Methylene Chloride	84
Methyl tert-butyl ether	83
trans-1,2-Dichloroethene	78
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	76
cis-1,2-Dichloroethene	77
Chloroform	82
1,1,1-Trichloroethane	91
Carbon Tetrachloride	104
Benzene	72
1,2-Dichloroethane	88
Trichloroethene	76
1,2-Dichloropropane	71
Bromodichloromethane	84
cis-1,3-Dichloropropene	79
4-Methyl-2-pentanone	82
Toluene	76
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	81
Tetrachloroethene	82
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	80
Chlorobenzene	75
Ethyl Benzene	77
m,p-Xylene	79
o-Xylene	79
Styrene	81
Bromoform	92
1,1,2,2-Tetrachloroethane	76



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0801438C-16A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8013103	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/31/08 10:06 AM

Compound	%Recovery
1,3-Dichlorobenzene	79
1,4-Dichlorobenzene	76
1,2-Dichlorobenzene	83
1,2,4-Trichlorobenzene	72

**Container Type: NA - Not Applicable**

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	111	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801438B-12A

## MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012905a	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	1/29/08 02:11 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	0.19 J	1.2	0.44 J
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	0.036 J	0.69	0.12 J
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	0.026 J	0.41	0.10 J
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	0.017 J	0.42	0.074 J
Bromoform	0.10	Not Detected	1.0	Not Detected
1,1,2,2-Tetrachloroethane	0.10	0.030 J	0.69	0.21 J
1,3-Dichlorobenzene	0.10	0.047 J	0.60	0.28 J



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801438B-12A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012905a	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	1/29/08 02:11 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,4-Dichlorobenzene	0.10	0.064 J	0.60	0.38 J
1,2-Dichlorobenzene	0.10	0.065 J	0.60	0.39 J
1,2,4-Trichlorobenzene	0.50	0.34 J	3.7	2.5 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801438B-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	e012905sim.a	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/29/08 02:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.020	0.0035 J	0.11	0.019 J

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	82	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801438B-13A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012902	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/29/08 11:38 AM

Compound	%Recovery
Freon 12	95
Chloromethane	101
Vinyl Chloride	94
Bromomethane	91
Chloroethane	90
Freon 11	109
Freon 113	109
1,1-Dichloroethene	89
Acetone	98
Carbon Disulfide	91
Methylene Chloride	82
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	88
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	97
Chloroform	107
1,1,1-Trichloroethane	105
Carbon Tetrachloride	90
Benzene	96
1,2-Dichloroethane	111
1,2-Dichloropropane	96
Bromodichloromethane	98
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	133 Q
Toluene	100
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	96
Tetrachloroethene	113
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	102
Chlorobenzene	106
Ethyl Benzene	104
m,p-Xylene	106
o-Xylene	109
Styrene	109
Bromoform	128
1,1,2,2-Tetrachloroethane	108
1,3-Dichlorobenzene	129



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0801438B-13A**

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012982	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/29/08 11:38 AM

Compound	%Recovery
1,4-Dichlorobenzene	128
1,2-Dichlorobenzene	130
1,2,4-Trichlorobenzene	122

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	122	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801438B-13B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012902sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/29/08 11:38 AM

Compound	%Recovery
Trichloroethene	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	122	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801438B-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	s012903	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/29/08 12:09 PM

Compound	%Recovery
Freon 12	100
Chloromethane	104
Vinyl Chloride	96
Bromomethane	110
Chloroethane	114
Freon 11	106
Freon 113	121
1,1-Dichloroethene	110
Acetone	106
Carbon Disulfide	101
Methylene Chloride	95
Methyl tert-butyl ether	85
trans-1,2-Dichloroethene	94
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	84
cis-1,2-Dichloroethene	92
Chloroform	94
1,1,1-Trichloroethane	98
Carbon Tetrachloride	104
Benzene	88
1,2-Dichloroethane	99
1,2-Dichloropropane	93
Bromodichloromethane	95
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	124
Toluene	106
trans-1,3-Dichloropropene	84
1,1,2-Trichloroethane	89
Tetrachloroethene	107
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	93
Chlorobenzene	103
Ethyl Benzene	100
m,p-Xylene	103
o-Xylene	109
Styrene	105
Bromoform	125
1,1,2,2-Tetrachloroethane	104
1,3-Dichlorobenzene	128



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801438B-14A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	s012903	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/29/08 12:09 PM

Compound	%Recovery
1,4-Dichlorobenzene	126
1,2-Dichlorobenzene	127
1,2,4-Trichlorobenzene	147 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	120	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801438B-14B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	6012903slim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/29/08 12:09 PM

Compound	%Recovery
Trichloroethene	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	120	70-130